

2412 75

RECEIVED

OCT 21 1999

TECH CENTER 1600/2900

SEQUENCE LISTING

<110> Gingeras, Thomas
Drenkow, Jorg
Affymetrix, Inc.

<120> Mycobacterial rpoB Sequences

<130> 018547-018570US

<140> US 09/285,306

<141> 1999-04-02

<150> US 60/080,616

<151> 1998-04-03

<160> 181

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 705

<212> DNA

<213> Mycobacterium tuberculosis

<400> 1

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cgttgatcaa | catccggccg | gtggtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccaatt | catggaccag | aacaaccgcg | 120 |
| tgtcgggggt | gaccacaag | cgccgactgt | cggcgctggg | gcccggcggt | ctgtcacgtg | 180 |
| agcgtgccgg | gctggaggtc | cgcgacgtgc | acccgtcgca | ctacggccgg | atgtgccga | 240 |
| tcgaaacccc | tgaggggccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tcaacccggt | cgggttcac | gaaacgcggt | accgcaaggt | ggtcgacggc | gtggttagcg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | cgtggtggca | caggccaatt | 420 |
| cgccgatcga | tgccgacggt | cgcttcgtcg | agccgcgcgt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgcc | tcgtctgagg | tggactacat | ggacgtctcg | ccccgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgattccct | tcctggagca | cgacgacgcc | aaccgtgccc | 600 |
| tcatgggggc | aaacatgcag | cgccaggcgg | tgccgctggt | ccgtagcgag | gccccgctgg | 660 |
| tgggcaccgg | gatggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 2

<211> 626

<212> DNA

<213> Mycobacterium abscessus

<400> 2

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| tccgtcccgt | cgtggcgggc | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtg | tcgggcctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gaccgcgtgac | cgcgcgggcc | tcgaggtccg | cgacgtgcac | ccctcgcaat | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggtcgc | 240 |
| tgctcgggtga | cgcgcgggtc | aaccggttcg | gtttcatcga | gacgccttac | cggaagggtc | 300 |
| cggacggagt | tgtaaccgac | gacatccact | acctgacggc | cgacgaagag | gaccgccacg | 360 |
| tggtggcgca | ggccaactcg | cccgaggacg | ccaacggccc | cttcaccgag | gagaagatcc | 420 |
| tggttcgccg | caagggcggc | gaggtggagt | tcgtgtcggc | gaccgaggtc | gactacatgg | 480 |
| atgtctcgcc | gcgccagatg | gtgtcgggtc | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgcaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcgggt | ccgctggtgc | 600 |
| gtagcgaggc | tccgctggtc | ggtacc | | | | 626 |

74.76

<210> 3
<211> 705
<212> DNA
<213> Mycobacterium avium

<221> modified_base
<222> (525)...(525)
<223> n = g,a,c or t

<221> modified_base
<222> (650)...(650)
<223> n = g,a,c or t

<400> 3

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgtcccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgccgcctgt | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggccc | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccgtt | cgggttcac | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | agggccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacntktcs | ccgcgccara | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgtgcc | 600 |
| tgatggggcg | caacatgcak | cgccaggcgg | ttccgctggt | gcgcagcgan | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 4
<211> 705
<212> DNA
<213> Mycobacterium avium

<400> 4

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtcca | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgtcccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgccgcctgt | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggccc | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tatgcgcggg | 300 |
| tcaacccgtt | cgggttcac | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | agggccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgtgcc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 5
<211> 705
<212> DNA
<213> Mycobacterium avium

<400> 5

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtcca | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgtcccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgccgcctgt | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggccc | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tatgcgcggg | 300 |
| tcaacccgtt | cgggttcac | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | agggccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | 540 |

tgggtgtcggg gccaccgcg atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 6
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 6
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc 120
 tgtcggggct caccacaag cgccgctgt cgccgctggg cccgggtggt ctgtcccg 180
 agcgggcccgg gctggaggtc cgcgacgtgc acccgcccc ctacggccgg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcgggt tatgcccgg 300
 tcaacccgtt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgcgg agggccgggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgtcggg gccaccgcg atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 7
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 7
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc 120
 tgtcggggct caccacaag cgccgctgt cgccgctggg cccgggtggt ctgtcccg 180
 agcgggcccgg gctggaggtc cgcgacgtgc acccgcccc ctacggccgg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcgggt tatgcccgg 300
 tcaacccgtt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgcgg agggccgggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgtcggg gccaccgcg atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 8
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 8
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc 120
 tgtcggggct caccacaag cgccgctgt cgccgctggg cccgggtggt ctgtcccg 180
 agcgggcccgg gctggaggtc cgcgacgtgc acccgcccc ctacggccgg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcgggt tatgcccgg 300
 tcaacccgtt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgcgg agggccgggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgtcggg gccaccgcg atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

91

1478

<210> 9
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 9
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgcg 120
 tgtcggggct caccacaaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
 agcgggcccg gctggaggtc cgcgacgtgc acccgcccc aacgggccg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcggg tatgcgcggg 300
 tcaaccggtt cgggttcacg gagacgccc accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgccg aggcccggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgcggg ggccaccgag atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcg caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 10
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 10
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtccr gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgcg 120
 tgtcgggtct gaccacaaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
 agcgggcccg cctggaggtc cgtgacgtgc acccgtcsc aacgggccg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcggg taygcgcggg 300
 tsaaccggtt cgggttcacg gagaccccgt accgcaaggt ggtcgacggt gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtsgtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgagg agkcccgggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgcggg ggccaccgag atgatcccgt tcctcgagca cgacgacgcc aaccgtgccc 600
 tgatggggcg caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 11
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<221> modified_base
 <222> (42)...(42)
 <223> n = g,a,c or t

<221> modified_base
 <222> (692)...(692)
 <223> n = g,a,c or t

<400> 11
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa cntccgtccc gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagt tgtcccagtt catggaccag aacaaccgcg 120
 tgtcggggct caccacaaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
 agcgggcccg gctggaggtc cgcgacgtgc acccgcccc aacgggccg atgtgccga 240
 tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcggg tacgcgcggg 300
 tgaaccggtt cgggttcacg gagacgccc accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
 cgccgatcga cgacaagggc cggttcgccg aggcccggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540

Q1

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggtgtcggg | ggccaccgag | atgatcccgt | tcctcgagca | cgacgacgac | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 12
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 12 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtcca | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tggtccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgcgcctgtg | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggcccg | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tatgcgcggg | 300 |
| tcaaccctgt | cggtttcatc | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | aggcccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggtactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgag | atgatcccgt | tcctcgagca | cgacgacgac | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 13
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 13 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtcca | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tggtccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgcgcctgtg | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggcccg | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tatgcgcggg | 300 |
| tcaaccctgt | cggtttcatc | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | aggcccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggtactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgag | atgatcccgt | tcctcgagca | cgacgacgac | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 14
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 14 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtcca | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tggtccagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | caccacaaag | cgcgcctgtg | cgccgctggg | cccgggtggt | ctgtcccggg | 180 |
| agcgggcccg | gctggaggtc | cgcgacgtgc | acccgtccca | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tatgcgcggg | 300 |
| tcaaccctgt | cggtttcatc | gagacgccgt | accgcaaggt | ggtcgacggc | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgacaagggc | cggttcgcgg | aggcccgggt | gctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggtactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgag | atgatcccgt | tcctcgagca | cgacgacgac | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 15
<211> 626
<212> DNA
<213> Mycobacterium avium

<400> 15
tccgtccagt cgtggcgggc atcaaggagt tcttcggcac cagccagctg tcccagttca 60
tggaccagaa caaccgcgtg tcgggggtca cccacaagcg ccgcctgtcg gcgctgggccc 120
cgggtggtct gtccccggag cgggcccggc tggaggtccg cgacgtgcac ccgtccact 180
acggccggat gtgcccgatc gagaccccgg aggggtccaa catcggtctg atcggtctgc 240
tgtcgggtga tgcgcgggtc aaccgcgttc gggtcatcga gacgccgtac cgcaagggtg 300
tcgacggcgt ggtcaccgac gagatccact acctgaccgc cgacgaggag gaccgccacg 360
tgggtggcca ggccaactcg ccgatcgacg acaaggggcg gttcgcggag gcccggtgc 420
tgggtccggc caaggcgggc gaggtcgagt acgtgccctc gtccgaggtg gactacatgg 480
acgtgtcgcc gcgccagatg gtgtcgggtg ccaccgcgat gatcccgttc ctcgagcagc 540
acgacgccaa ccgtgccctg atgggcgcca acatgcagcg ccaggcggtt ccgctggtgc 600
gcagcgaggc gccgctggtg ggcacc 626

<210> 16
<211> 705
<212> DNA
<213> Mycobacterium avium

<400> 16
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgcg 120
tgtcggggct caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
agcgggcccg gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgccga 240
tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcgggt tatgcgcggg 300
tcaaccgcgt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccc 360
acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
cgccgatcga cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg 480
gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
tgggtgtcgg ggccaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgccc 600
tgatggggcg caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgcgcgtgg 660
tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 17
<211> 705
<212> DNA
<213> Mycobacterium avium

<400> 17
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgcg 120
tgtcggggct caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
agcgggcccg gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgccga 240
tcgagacccc ggagggtccc aacatcggtc tgatcggtc gctgtcgggt tatgcgcggg 300
tcaaccgcgt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccc 360
acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
cgccgatcga cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg 480
gcgaggtcga gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
tgggtgtcgg ggccaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgccc 600
tgatggggcg caacatgcag cgccaggcgg ttccgctggt gcgcagcgaa gcgcgcgtgg 660
tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 18
<211> 687
<212> DNA
<213> Mycobacterium avium

<400> 18

ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggccgg 180
 gctggaggtc cgcgacgtgc acccgccccca ctacggccgg atgtgccga tcgagacccc 240
 ggagggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgagg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctctgagca cgacgacgcc aaccgtgcc tgatggggcg 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 19

<211> 687

<212> DNA

<213> Mycobacterium avium

<400> 19

ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggccgg 180
 gctggaggtc cgcgacgtgc acccgccccca ctacggccgg atgtgccga tcgagacccc 240
 ggagggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgagg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctctgagca cgacgacgcc aaccgtgcc tgatggggcg 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 20

<211> 687

<212> DNA

<213> Mycobacterium avium

<400> 20

ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggccgg 180
 gctggaggtc cgcgacgtgc acccgccccca ctacggccgg atgtgccga tcgagacccc 240
 ggagggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgagg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctctgagca cgacgacgcc aaccgtgcc tgatggggcg 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 21

<211> 687

<212> DNA

<213> Mycobacterium avium

<400> 21

ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggccgg 180

12362

gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgcccg tgcagacccc 240
 ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctcgagca cgacgacgcc aaccgtgccc tgatgggcgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 22
 <211> 687
 <212> DNA
 <213> Mycobacterium avium

<400> 22
 ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggcccgg 180
 gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgcccg tgcagacccc 240
 ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctcgagca cgacgacgcc aaccgtgccc tgatgggcgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 23
 <211> 687
 <212> DNA
 <213> Mycobacterium avium

<400> 23
 ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgcggggct 120
 caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg agcgggcccgg 180
 gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgcccg tgcagacccc 240
 ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg tcaaccggtt 300
 cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgcg atgatcccg tctcgagca cgacgacgcc aaccgtgccc tgatgggcgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 24
 <211> 705
 <212> DNA
 <213> Mycobacterium avium

<400> 24
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc 120
 tgtcggggct caccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccggg 180
 agcgggcccgg gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgcccg 240
 tgcagacccc ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg 300
 tcaaccggtt cgggttcacg gagacgccgt accgcaaggt ggtcgacggc gtggtcaccg 360
 acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420

cgccgatcga cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg 480
 gcgaggtcga gtacgtgcc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
 tgggtgtcgg ggccaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgcc 600
 tgatggggcg caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 25
 <211> 687
 <212> DNA
 <213> Mycobacterium avium

<400> 25
 ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgctgt cggcgctggg cccgggtggt ctgtcccggg agcggggcgg 180
 gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgccga tcgagacccc 240
 ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg tcaaccggtt 300
 cgggttcacg gagacgccg accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgcc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgcc tgatggggcg 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcggcga tcgacgc 687

<210> 26
 <211> 687
 <212> DNA
 <213> Mycobacterium avium

<400> 26
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 attcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tgtcgggtct 120
 gaccacaag cgtcgtctgt cggcgctggg ccccggcggg ctgtcccgtg agcgcgcggg 180
 ccttgaggtc cgcgacgtgc actccagcca ctacggccgc atgtgccga tcgagacccc 240
 tgaggggtccg aacatcggtc tgatcggtc gctgtcggtg tacgcccggg tcaaccggtt 300
 cggcttcacg gagaccccgt accgcaaggt cgtcgacggg gtggtcaccg accagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgccgatcgg 420
 cgcggacggc agcttcaccg aagaccgct gatggtccgc cgtaaggcg gcgaggtcga 480
 gaacgtggcc ccgatgcagc tggattacat ggacgtctcg ccgcgccaga tgggtgtcgg 540
 cgcgaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgcc tgatgggtgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgtagcgag gcccgcgtgg tcggtaccgg 660
 tatggagttg cgcgcggcga tcgacgc 687

<210> 27
 <211> 687
 <212> DNA
 <213> Mycobacterium avium complex (MAC)

<400> 27
 ggaggcgatc acaccgcaga ccctgatcaa catccgtcca gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcccagtt catggaccag aacaaccgc tgtcggggct 120
 caccacaag cgccgctgt cggcgctggg cccgggtggt ctgtcccggg agcggggcgg 180
 gctggaggtc cgcgacgtgc acccgtccca ctacggccgg atgtgccga tcgagacccc 240
 ggaggggtccc aacatcggtc tgatcggtc gctgtcggtg tatgcgcggg tcaaccggtt 300
 cgggttcacg gagacgccg accgcaaggt ggtcgacggc gtggtcaccg acgagatcca 360
 ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
 cgacaagggc cggttcgcgg aggcccggt gctggtccgc cgcaaggcgg gcgaggtcga 480
 gtacgtgcc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
 ggccaccgag atgatcccg tccctcgagca cgacgacgcc aaccgtgcc tgatggggcg 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660

catggagctg cgcgcggcga tcgacgc

687

<210> 28
 <211> 705
 <212> DNA
 <213> Mycobacterium bovis

<400> 28
 cccaggacgt ggaggcgatc acaccgcaga cgttgatcaa catccggccg gtggtcgccg 60
 cgatcaagga gttcttcggc accagccagc tgagccaatt catggaccag aacaaccgcg 120
 tgtcgggggt gaccacaaag cgcgcactgt cggcgctggg gcccggcggt ctgtcacgtg 180
 agcgtgcccg gctggaggtc cgcgacgtgc acccgtcgca ctacggccgg atgtgccga 240
 tcgaaacccc tgagggggcc aacatcggtc tgatcggtc gctgtcggtg tacgcgcggg 300
 tcaaccggtt cgggttcacg gaaacgccgt accgcaaggt ggtcgacggc gtggttagcg 360
 acgagatcgt gtacctgacc gccgacgagg aggaccgcca cgtggtggca caggccaatt 420
 cgccgatcga tgcggacggt cgcttcgtcg agccgcgcgt gctggtccgc cgcaaggcgg 480
 gcgaggtgga gtacgtgccc tcgtctgagg tggactacat ggacgtctcg ccccgccaga 540
 tgggtgcggt ggccaccgcg atgattccct tcctggagca cgacgacgcc aaccgtgccc 600
 tcatgggggc aaacatgcag cgccaggcgg tgccgctggt ccgtagcgag gccccgctgg 660
 tgggcaccgg gatggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 29
 <211> 687
 <212> DNA
 <213> Mycobacterium bovis

<400> 29
 ggaggcgatc acaccgcaga cgttgatcaa catccggccg gtggtcgccg cgatcaagga 60
 gttcttcggc accagccagc tgagccaatt catggaccag aacaaccgcg tgtcgggggt 120
 gaccacaaag cgcgcactgt cggcgctggg gcccggcggt ctgtcacgtg agcgtgccgg 180
 gctggaggtc cgcgacgtgc acccgtcgca ctacggccgg atgtgccga tcgaaacccc 240
 tgagggggccc aacatcggtc tgatcggtc gctgtcggtg tacgcgcggg tcaaccggtt 300
 cgggttcacg gaaacgccgt accgcaaggt ggtcgacggc gtggttagcg acgagatcgt 360
 gtacctgacc gccgacgagg aggaccgcca cgtggtggca caggccaatt cgccgatcga 420
 tgcggacggt cgcttcgtcg agccgcgcgt gctggtccgc cgcaaggcgg gcgaggtgga 480
 gtacgtgccc tcgtctgagg tggactacat ggacgtctcg ccccgccaga tgggtgcggt 540
 ggccaccgcg atgattccct tcctggagca cgacgacgcc aaccgtgccc tcatgggggc 600
 aaacatgcag cgccaggcgg tgccgctggt ccgtagcgag gccccgctgg tgggcaccgg 660
 gatggagctg cgcgcggcga tcgacgc 687

<210> 30
 <211> 652
 <212> DNA
 <213> Mycobacterium chelonae

<400> 30
 cgcagaccct gatcaacatc cgtcccgtcg tggcggcgat caaggagtgc ttcggaacca 60
 gccagctgtc gcagttcatg gaccagaaca acccgctgtc ggtctgacc cacaagcgtc 120
 gtctgtcggc gctgggcccc ggtggtctga ctctgaccg cgcggcctt gaggtccgog 180
 acgtgcaccc ctgcactac ggccgcatgt gcccgatcga gaccccgaa gggccgaaca 240
 tcggtctgat cggttcgctg tcggtgtacg cgcgggtcaa cccgttcggc ttcacgcaga 300
 cgccgtaccg caaggtgtcc gaggggtgtc taccgacga gatccactac ctgaccgcgg 360
 acgaagagga ccgccacgtg gtggcgagg ccaactcgcc tgtggatgcc gacggccgct 420
 tcaccgagga caagatcctg gtccgccgta aggggtggca ggtcgagtgc gtctcggcga 480
 ccgaggtgga ctacatggac gtctcgccgc gccagatggt gtcggtcgcg accgccatga 540
 tcccgttcct cgagcacgac gacgccaaac gtgccctcat gggtgccaac atgcagcgcc 600
 aggcggttcc gctggtgcgc agcgaggccc cgctggctcg taccggtatg ga 652

11/3/95

al

<210> 31
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 31

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtt | tcgggtctga | cccacaagcg | tcgtctgtcg | gctctggggc | 120 |
| ccggtggtct | gaccgcgtgac | cgcgctggcc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tttcggtgta | cgcgcgggtc | aaccggttcg | gcttcacgca | gacgccgtac | cgcaaggtgt | 300 |
| ccgaggggtg | cgtcaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggatg | ccgacggccg | cttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgcaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtgggtc | ggtacc | | | | 626 |

<210> 32
<211> 647
<212> DNA
<213> Mycobacterium chelonae

<400> 32

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| tgatcaacat | ccgtcccgtc | gtggcggcga | tcaaggagtt | cttcggaacc | agccagctgt | 60 |
| cgcagttcat | ggaccagaac | aaccgcgttt | cgggtctgac | ccacaagcgt | cgtctgtcgg | 120 |
| ctctgggccc | cggtggtctg | accgcgtgac | gcgctggcct | tgaggtccgc | gacgtgcacc | 180 |
| cctcgcaacta | cgccgcgatg | tgcccgatcg | agaccccga | aggcccgaac | atcggcctga | 240 |
| tcggttcgct | ttcgggtgtac | gcgcgggtca | accgcgttcg | cttcacgcag | acgccgtacc | 300 |
| gcaaggtgtc | cgaggggtgc | gtcacccgac | agatccacta | cctgaccgcc | gacgaagagg | 360 |
| accgccacgt | cgtggcacag | gccaactcgc | ctgtggatgc | cgacggccgc | ttcaccgagg | 420 |
| acaagatcct | ggtccgcctg | aagggtggcg | aggtcgagtt | cgtctcggcg | accgaggtgg | 480 |
| actacatgga | cgtctcgccg | cgccagatgg | tgctcggtcgc | gaccgccatg | atcccgttcc | 540 |
| tcgagcacga | cgacgccaac | cgtgccctca | tgggtgcaa | catgcagcgc | caggcggttc | 600 |
| cgctggtgcg | cagcgaggcc | ccgctgggtc | gtaccggtat | ggagctg | | 647 |

<210> 33
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 33

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctttcg | gcgctggggc | 120 |
| ccggtggtct | gaccgcgtgac | cgcgcgggcc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tgctcggtgta | cgcgcgggtc | aaccggttcg | gcttcacgca | gacgccgtac | cgcaaggtgt | 300 |
| ccgaggggtg | cgtcaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggatg | ccgacggccg | cttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccaaatg | gtgtcggtcg | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgcaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtgggtc | ggtacc | | | | 626 |

<210> 34
<211> 643
<212> DNA
<213> Mycobacterium chelonae

<400> 34

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| tgatcaacat | ccgtcccgtc | gtggcggcga | tcaaggagtt | cttcggaacc | agccagctgt | 60 |
|------------|------------|------------|------------|------------|------------|----|

12 32 86

a1

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| cgcagttcat | ggaccagaac | aaccgcgttt | cgggtctgac | ccacaagcgt | cgtctgtcgg | 120 |
| ctctgggccc | cgggtgtctg | accgcgtgac | gcgctggcct | tgaggtccgc | gacgtgcacc | 180 |
| cctcgcacta | cggccgcatg | tgcccgatcg | agaccccga | aggcccgaac | atcggcctga | 240 |
| tcggttcgct | ttcgggtgtac | gcgcgggtca | accgcgttcg | cttcacgcag | acgccgtacc | 300 |
| gcaagggtgtc | cgagggtgtc | gtcaccgcag | agatccacta | cctgaccgcc | gacgaagagg | 360 |
| accgccacgt | cgtggcacag | gccaactcgc | ctgtggatgc | cgacggccgc | ttcaccgagg | 420 |
| acaagatcct | ggtccgccgt | aagggtggcg | aggtcgagtt | cgtctcggcg | accgaggtgg | 480 |
| actacatgga | cgtctcgccg | cgccagatgg | tgtcgggtcg | gaccgccatg | atcccgttcc | 540 |
| tcgagcacga | cgacgccaac | cgtgccctca | tgggtgccaa | catgcagcgc | caggcggttc | 600 |
| cgctggtgcg | cagcgaggcc | ccgctggtcg | gtaccggtat | gga | | 643 |

<210> 35
 <211> 705
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 35 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcgga | accagccagc | tctcgagtt | catggaccag | aacaaccgc | 120 |
| tgtcgggtct | gaccacaag | cgtcgtctgt | cggcgctggg | cccgggtggt | ctgaccctgt | 180 |
| accgcgcggg | ccttgaggtc | cgtgacgtgc | acccctcgca | ctatggccgc | atgtgccga | 240 |
| tcgagacccc | ggaaggcccg | aacatcggcc | tgatcggctc | gctgtcgggt | tacgcgcgcg | 300 |
| ttaaccctgt | cggttcatc | gagacgcgt | accgcaaggt | ggtcgagggt | gtcgtcaccc | 360 |
| acgagatccg | ctacctgact | gccgacgaag | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgaccga | tgagaagggc | cgcttcaccg | aggagcgcgt | cctggtgcgc | cgtaaggggtg | 480 |
| gcgaggtcga | gttcgtgccg | tcgacggggc | tcgactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | cgcgaccgcg | atgatcccg | tccctggagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgtagcgag | gccccgctgg | 660 |
| tcggtaccgg | tatggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 36
 <211> 626
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| <400> 36 | | | | | | |
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtt | tcgggtctga | cccacaagcg | tcgtctgtcg | gctctgggcc | 120 |
| ccggtggtct | gaccctgtgac | cgcgctggcc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tttcggtgta | cgcgcgggtc | aaccgcgttc | gcttcacgca | gacgccgtac | cgcaagggtg | 300 |
| ccgagggtgt | cgtcaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggatg | ccgacggccg | cttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcgggtc | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtgggtc | ggtacc | | | | 626 |

<210> 37
 <211> 626
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| <400> 37 | | | | | | |
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtt | tcgggtctga | cccacaagcg | tcgtctgtcg | gctctgggcc | 120 |
| ccggtggtct | gaccctgtgac | cgcgctggcc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tttcggtgta | cgcgcgggtc | aaccgcgttc | gcttcacgca | gacgccgtac | cgcaagggtg | 300 |
| ccgagggtgt | cgtcaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggatg | ccgacggccg | cttcaccgag | gacaagatcc | 420 |

13/3/51

Q1

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggtccgccg | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcc | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtggtc | ggtacc | | | | 626 |

<210> 38
 <211> 652
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 38 | | | | | | |
| gcagaccctg | atcaacatcc | gtcccgtcgt | ggcggcgatc | aaggagttct | tcggaaccag | 60 |
| ccagctgtcg | cagttcatgg | accagaacaa | cccgtgtcgt | ggtctgacct | acaagcgctg | 120 |
| tctttcggcg | ctgggccccg | gtggtctgac | ccgtgaccgc | gccggccttg | aggtccgcga | 180 |
| cgtgcacccc | tcgcaactac | gccgcagtgt | cccgatcgag | accccggaag | gcccgaacat | 240 |
| cggcctgata | ggttcgctgt | cggtgtacgc | gcgggtcaac | ccgttcggct | tcacgcagac | 300 |
| gccgtaccgc | aagggtgtcc | aggggtgtcgt | caccgacgag | atccactacc | tgaccgccga | 360 |
| cgaagaggac | cgccacgtcg | tggcacaggc | caactcgcct | gtggatgccg | acggccgctt | 420 |
| caccgaggac | aagatcctgg | tccgccgtaa | gggtggcgag | gtcgagttcg | tctcggcgac | 480 |
| cgaggtggac | tacatggacg | tctcgcgcgc | ccaaatgggt | tcggtcgcga | ccgccatgat | 540 |
| ccggttcctc | gagcacgacg | acgccaaacc | tgccctcatg | ggtgccaaac | tgacgcgcca | 600 |
| ggcggttccg | ctgggtgcga | gcgaggcccc | gctggtcggt | accggtatgg | ag | 652 |

<210> 39
 <211> 626
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 39 | | | | | | |
| tccgtcccgt | cgtggcgggc | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gaccgcgtgac | cgcgcggggc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggccccgaa | catcggcctg | atcggttcgc | 240 |
| tgctcgggtg | cgcgcgggtc | aaccgcgttc | gcttcacgca | gacgccgtac | cgcaagggtgt | 300 |
| ccgaggggtg | cgtaaccgac | gacatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggacg | ccgacggccg | tttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcc | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtggtc | ggtacc | | | | 626 |

<210> 40
 <211> 626
 <212> DNA
 <213> Mycobacterium chelonae

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 40 | | | | | | |
| tccgtcccgt | cgtggcgggc | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctttcg | gcgctggggc | 120 |
| ccggtggtct | gaccgcgtgac | cgcgcggggc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggccccgaa | catcggaactg | atcggttcgc | 240 |
| tgctcgggtg | cgcgcgggtc | aaccgcgttc | gcttcacgca | gacgccgtac | cgcaagggtgt | 300 |
| ccgaggggtg | cgtaaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tggtggcgca | ggccaactcg | cctgtggatg | cgacggcccg | cttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcc | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgtggtc | ggtacc | | | | 626 |

14 3/1 86

01

<210> 41
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 41
tccgtcccgt cgtggcggcg atcaaggagt tcttcggaac cagccagctg tgcagttca 60
tggaccagaa caaccgcgtt tcgggtctga cccacaagcg tcgtctgtcg gctctggggc 120
ccggtggtct gaccctgtgac cgcgctggcc ttgaggtccg cgacgtgcac ccctcgcaact 180
acggccgcat gtgcccgatc gagaccccgg aaggcccgaac catcggcctg atcggttcgc 240
tttcggtgta cgcgcgggtc aaccgcgttcg gcttcacga gacgccgtac cgcaaggtgt 300
ccgaggggtg cgtcaccgac gagatccact acctgaccgc cgacgaagag gaccgccacg 360
tcgtggcaca ggccaactcg cctgtggatg ccgacggccg cttaccgag gacaagatcc 420
tgggtccgcc taagggtggc gaggtcgagt tcgtctcggc gaccgaggtg gactacatgg 480
acgtctcgcc gcgccagatg gtgtcggtcg cgaccgccat gatcccgctc ctgagcacg 540
acgacgcaa ccgtgccctc atgggtgcca acatgcagcg ccaggcggtt ccgctggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 42
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 42
tccgtcccgt cgtggcggcg atcaaggagt tcttcggaac cagccagctg tgcagttca 60
tggaccagaa caaccgcgtt tcgggtctga cccacaagcg tcgtctgtcg gctctggggc 120
ccggtggtct gaccctgtgac cgcgctggcc ttgaggtccg cgacgtgcac ccctcgcaact 180
acggccgcat gtgcccgatc gagaccccgg aaggcccgaac catcggcctg atcggttcgc 240
tttcggtgta cgcgcgggtc aaccgcgttcg gcttcacga gacgccgtac cgcaaggtgt 300
ccgaggggtg cgtcaccgac gagatccact acctgaccgc cgacgaagag gaccgccacg 360
tcgtggcaca ggccaactcg cctgtggatg ccgacggccg cttaccgag gacaagatcc 420
tgggtccgcc taagggtggc gaggtcgagt tcgtctcggc gaccgaggtg gactacatgg 480
acgtctcgcc gcgccagatg gtgtcggtcg cgaccgccat gatcccgctc ctgagcacg 540
acgacgcaa ccgtgccctc atgggtgcca acatgcagcg ccaggcggtt ccgctggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 43
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 43
tccgtcccgt cgtggcggcg atcaaggagt tcttcggaac cagccagctg tgcagttca 60
tggaccagaa caaccgcgtt tcgggtctga cccacaagcg tcgtctgtcg gctctggggc 120
ccggtggtct gaccctgtgac cgcgctggcc ttgaggtccg cgacgtgcac ccctcgcaact 180
acggccgcat gtgcccgatc gagaccccgg aaggcccgaac catcggcctg atcggttcgc 240
tttcggtgta cgcgcgggtc aaccgcgttcg gcttcacga gacgccgtac cgcaaggtgt 300
ccgaggggtg cgtcaccgac gagatccact acctgaccgc cgacgaagag gaccgccacg 360
tcgtggcaca ggccaactcg cctgtggatg ccgacggccg cttaccgag gacaagatcc 420
tgggtccgcc taagggtggc gaggtcgagt tcgtctcggc gaccgaggtg gactacatgg 480
acgtctcgcc gcgccagatg gtgtcggtcg cgaccgccat gatcccgctc ctgagcacg 540
acgacgcaa ccgtgccctc atgggtgcca acatgcagcg ccaggcggtt ccgctggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 44
<211> 626
<212> DNA
<213> Mycobacterium chelonae

<400> 44
tccgtcccgt cgtggcggcg atcaaggagt tcttcggaac cagccagctg tgcagttca 60

Q1

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| tggaccagaa | caaccgcgtt | tcggtgtctga | cccacaagcg | tcgtctgtcg | gctctggggcc | 120 |
| ccggtgtgtct | gaccctgtgac | cgcgctggcc | ttgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tttcggtgta | cgcgcgggtc | aaccgcgttcg | gcttcacatga | gacgcccgtac | cgcaaggtgt | 300 |
| ccgaggggtgt | cgtcaccgac | gagatccact | acctgaccgc | cgacgaagag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | cctgtggatg | ccgacggccg | cttcaccgag | gacaagatcc | 420 |
| tggtccgccc | taagggtggc | gaggtcgagt | tcgtctcggc | gaccgaggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcgggtc | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgttggtc | ggtacc | | | | 626 |

<210> 45

<211> 626

<212> DNA

<213> Mycobacterium chelonae

<400> 45

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggcctga | cccacaagcg | tcgtctgtcg | gcgctggggcc | 120 |
| ccggtgtgtct | gaccctgtgac | cgcgcgggcc | tcgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tgtcggtgta | cgcgcgcgtc | aaccgcgttcg | gtttcatcga | gacgccttac | cggaaggtct | 300 |
| cggacggagt | tgtaaccgac | gagatccact | acctgacggc | cgacgaagag | gaccgccacg | 360 |
| tggtggcgca | ggccaactcg | cccgtggacg | ccaacggccg | cttcaccgag | gagaagatcc | 420 |
| tggttcgccc | caaggcgggc | gaggtggagt | tcgtgtcggc | gaccgaggtc | gactacatgg | 480 |
| atgtttcgcc | gcgccagatg | gtgtcgggtc | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gtagcgaggc | tccgctgggtc | ggtacc | | | | 626 |

<210> 46

<211> 626

<212> DNA

<213> Mycobacterium chelonae

<400> 46

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggcctga | cccacaagcg | tcgtctgtcg | gcgctggggcc | 120 |
| ccggtgtgtct | gaccctgtgac | cgcgcgggcc | tcgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tgtcggtgta | cgcgcgcgtc | aaccgcgttcg | gtttcatcga | gacgccttac | cggaaggtct | 300 |
| cggacggagt | tgtaaccgac | gagatccact | acctgacggc | cgacgaagag | gaccgccacg | 360 |
| tggtggcgca | ggccaactcg | cccgtggacg | ccaacggccg | cttcaccgag | gagaagatcc | 420 |
| tggttcgccc | caaggcgggc | gaggtggagt | tcgtgtcggc | gaccgaggtc | gactacatgg | 480 |
| atgtttcgcc | gcgccagatg | gtgtcgggtc | cgaccgccat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgtgccctc | atgggtgcca | acatgcagcg | ccaggcggtt | ccgctggtgc | 600 |
| gtagcgaggc | tccgctgggtc | ggtacc | | | | 626 |

<210> 47

<211> 626

<212> DNA

<213> Mycobacterium chelonae

<400> 47

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggcctga | cccacaagcg | tcgtctgtcg | gcgctggggcc | 120 |
| ccggtgtgtct | gaccctgtgac | cgcgcgggcc | tcgaggtccg | cgacgtgcac | ccctcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aaggcccga | catcggcctg | atcggttcgc | 240 |
| tgtcggtgta | cgcgcgggtc | aaccgcgttcg | gtttcatcga | gacgccttac | cggaaggtct | 300 |
| cggacggagt | tgtaaccgac | gacatccact | acctgacggc | cgacgaagag | gaccgccacg | 360 |
| tggtggcgca | ggccaactcg | cccgtggacg | ccaacggccg | cttcaccgag | gagaagatcc | 420 |
| tggttcgccc | caaggcgggc | gaggtggagt | tcgtgtcggc | gaccgaggtc | gactacatgg | 480 |

a1
 atgtctcgcc gcgccagatg gtgtcgggtcg cgaccgccat gatcccggtc ctcgagcacg 540
 acgacgcaa ccgtagccctc atgggtgcca acatgcagcg ccaggcggtt ccgctgggtgc 600
 gtagcgaggc tccgctggtc ggtacc 626

<210> 48
 <211> 687
 <212> DNA
 <213> Mycobacterium flavescens

<400> 48
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tctcgggcct 120
 gacccacaag cgccgcctgt cggcgctggg ccccggcgtt ctgtcccgtg agcgcgccgg 180
 cctcgagggtc cgcgacgtgc acgcacgca ctacggccgc atgtgccga tcgagacccc 240
 ggagggtccg aacatcgcc tgcgcggctc gctgtcgggtg tacgcgcggg tcaaccggtt 300
 cggcttcacg gagacgccgt accgcaaggt caaggacggt gttgtcaccg atgacatcga 360
 gtacctgacc gccgacgagg aggaccgcca cgtagtggtg caggccaact cgccgatcga 420
 tgacaacggc cgcttccttg aggagcgcgt cctggtccgc cgcaaggggc gcgaggtcga 480
 gcagatctcg tcgagcgagg tggactacat ggacgtctcg ccgcgccaga tggatcggt 540
 cgcgacggcc atgatcccg tccctgagca cgacgacgcc aaccgcgcc tgatgggtgc 600
 caacatgcag cgccaggcgg tcccgtggt gcgcagcgag gcccgtggtg tcggcaccgg 660
 tatggagttg cgcgcgccga tcgacgc 687

<210> 49
 <211> 687
 <212> DNA
 <213> Mycobacterium flavescens

<400> 49
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tctcgggcct 120
 gacccacaag cgccgcctgt cggcgctggg ccccggcgtt ctgtcccgtg agcgcgccgg 180
 cctcgagggtc cgcgacgtgc acgcgtcgca ctacggccgc atgtgccga tcgagacccc 240
 ggagggtccg aacatcgcc tgcgcggctc gctgtcgggtg tacgcgcggg tcaaccggtt 300
 cggcttcacg gagacgccgt accgcaaggt caaggacggt gttgtcaccg atgacatcga 360
 gtacctgacc gccgacgagg aggaccgcca cgtagtggtg caggccaact cgccgatcga 420
 tgacaacggc cgcttccttg aggagcgcgt cctggtccgc cgcaaggggc gcgaggtcga 480
 gcagatctcg tcgagcgagg tggactacat ggacgtctcg ccgcgccaga tggatcggt 540
 cgcgacggcc atgatcccg tccctgagca cgacgacgcc aaccgcgcc tgatgggtgc 600
 caacatgcag cgccaggcgg tcccgtggt gcgcagcgag gcccgtggtg tcggcaccgg 660
 tatggagttg cgcgcgccga tcgacgc 687

<210> 50
 <211> 687
 <212> DNA
 <213> Mycobacterium flavescens

<400> 50
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tctcgcagtt catggatcag aacaaccgc tctcgggcct 120
 gacccacaag cgccgcctgt cggcgctggg ccccggtggt ctgtcccgtg agcgcgccgg 180
 cctcgagggtc cgcgacgtgc actccagcca ctacggccgc atgtgccga tcgagacccc 240
 ggaaggcccg aacatcgcc tgcgcggctc gctgtcgggtg tacgcgcggg tcaaccggtt 300
 cggcttcacg gagaccccgt accgcaaggt cgtagacggc gtcgtcagcg accagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtagtggtg caggccaatt cgccgctcga 420
 cggtagcggg cgtttcgagg aggagcgcgt cctggtccgc cgtaaggggc gcgaggtcga 480
 gttcgtctcg gcgagcgagg tcgactacat ggacgtctcg ccgcgccaga tgggtgctgg 540
 cgcgacggcg atgatcccg tccctgagca cgacgacgcc aaccgcgcc tgatgggtgc 600
 gaacatgcag cgccaggcgg tcccgtggt ccgcagcgag gcgccgttgg tcggtaccgg 660
 catggaactg cgcgcgccga tcgacgc 687

17/3/91

<210> 51
<211> 705
<212> DNA
<213> Mycobacterium fortuitum

<400> 51

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcgg | 60 |
| cgatcaagga | gttcttcgga | acgtcgcagc | tgctgcagtt | catggatcag | aacaaccgcg | 120 |
| tgctcgggtct | gacccacaag | cgctcgtctgt | cggcgctggg | ccccggcggg | ctgtcccgtg | 180 |
| agcgcgcggg | ccttgaggtc | cgcgacgtcc | actcgtcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | tgagggtccg | aacatcggtc | tgatcgggtc | gctttcgggtg | tacgcgcggg | 300 |
| tcaacccggt | cggtttcata | gagaccccg | accgcaaggt | cgctcgacgg | gtggtcaccg | 360 |
| accagatcga | ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgcgatcga | cccggaaggc | cggttcacgg | aggaccgcgt | gatggttcgt | cgtaagggcg | 480 |
| gcgaggtcga | gaacgtggcc | ccgtccgacg | tcgactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtccgt | cgcgaccgcg | atgatcccgt | tctcgcagca | cgacgacgcc | aaccgcgcc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gccccgctgg | 660 |
| tcggtaccgg | tatggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 52
<211> 705
<212> DNA
<213> Mycobacterium fortuitum

<400> 52

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcgg | 60 |
| cgatcaagga | attcttcggc | accagccagc | tgctgcagtt | catggaccag | aacaaccgcg | 120 |
| tgctcgggtct | gacccacaag | cgctcgtctgt | cggcgctggg | ccccggcggg | ctgtcccgtg | 180 |
| agcgcgcggg | ccttgaggtc | cgcgacgtgc | actccagcca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | tgagggtccg | aacatcggtc | tgatcgggtc | gctgtcgggtg | tacgcccggg | 300 |
| tcaacccggt | cggcttcata | gagaccccg | accgcaaggt | cgctcgacgg | gtggtcaccg | 360 |
| accagatcga | ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgcgatcgg | cgcggacggc | agcttcacgg | aagaccgcgt | gatggtccgc | cgtaagggcg | 480 |
| gcgaggtcga | gaacgtggcc | ccgatcgacg | tggtattacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | cgcgaccgcg | atgatcccgt | tctcgcagca | cgacgacgcc | aaccgtgcc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgtagcgag | gccccgctgg | 660 |
| tcggtaccgg | tatggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 53
<211> 626
<212> DNA
<213> Mycobacterium fortuitum

<221> modified_base
<222> (340)...(340)
<223> n = g,a,c or t

<221> modified_base
<222> (354)...(355)
<223> n = g,a,c or t

<400> 53

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggtac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtt | tcgggtctga | cccacaagcg | tcgcctgtcg | gcgctggggc | 120 |
| ccggcgggtct | gtcccgtgag | cgtgcgggcc | ttgaggtccg | cgacgtgcac | gccagccact | 180 |
| acggccgcat | gtgcccgatc | gagacccctg | agggtccgaa | catcgggtctg | atcggctcgc | 240 |
| tgctcgggtga | cgcccgggtc | aaccgcgttcg | gcttcacatga | gacgccgtac | cgcaagggtcg | 300 |
| tcgacggtgt | ggtcaccgac | cagatcgact | acctgaccgn | cgacgaggag | gacnntcacg | 360 |
| tcgtggcgca | ggccaactcg | ccgatcgacg | ccgacggccg | cttcaccgaa | gaccgcgtca | 420 |
| tggtgcgtcg | taagggcggc | gaggtcgaga | acgtggcccc | gtccgacgtc | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtctgtcg | cgaccgcgat | gatcccgttc | ctcgagcacg | 540 |

acgacgccaa ccgcgccctg atgggtgcc aatgcagcg ccaggcggtt ccaactggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 54
<211> 705
<212> DNA
<213> Mycobacterium fortuitum

<400> 54
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg 60
cgatcaagga gttcttcgga acgtcgagc tgtcgagtt catggatcag aacaaccgc 120
tgtcgggtct gaccacaaag cgtcgtctgt cggcgctggg ccccgcggt ctgtccgtg 180
agcgcgccgg ccttgaggtc cgcgacgtcc actcgtcgca ctacggccgc atgtgtccga 240
tcgagacccc tgagggtccg aacatcggtc tgatcggttc gctttcgggtg tacgcgcggg 300
tcaacccgtt cggtttcacg gagaccccg accgcaaggt cgtcgacggt gtggtcaccg 360
atcagatcga ctacctgacc gccgacgag aggaccgcca cgtcgtggcg caggccaact 420
cgccgatcga cccggacggc cggttcaccg aggaccgct gatggttcgt cgtaaggcg 480
gcgaggtcga gaatgtggcc cgtccgacg tcgactacat ggacgtctcg ccgcgccaga 540
tggtgtccgt cgcgaccgag atgatccgt tcctcgagca cgacgacgc aaccgcgcc 600
tgatgggtgc caacatgcag cgcagggcg ttccgctggt gcgacgcag gccccgctgg 660
tcggtaccgg tatggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 55
<211> 705
<212> DNA
<213> Mycobacterium fortuitum

<400> 55
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg 60
cgatcaagga gttcttcgga accagccagc tgtcgagtt catggaccag aacaaccgc 120
tgtcgggtct gaccacaaag cgtcgctgt cggcgctggg ccccgcggt ctgtccgtg 180
agcgtgccgg ccttgaggtc cgcgacgtgc actccagcca ctacggccgc atgtgccga 240
tcgagacccc tgagggtccg aacatcggtc tgatcggttc gctgtcgggtg tacgcccggg 300
tcaacccgtt cggtttcacg gagacgccgt accgcaaggt cgtcgacggt gtggtctccg 360
accagatcga ctacctgacc gccgacgag aggaccgcca cgtcgtggcg caggccaact 420
cgccgatcga cgcggacggc agttcaccg aggatcgct gatggtccg cgtaagggtg 480
gcgaggtcga gaacgtggcc cgtccgacg tcgactacat ggacgtctcg ccgcgccaga 540
tggtgtctgt cgcgaccgag atgatccgt tcctcgagca cgacgacgc aaccgcgcc 600
tgatgggtgc caacatgcag cgcagggcg ttccgctggt gcgacgcag gccccgctgg 660
tcggtaccgg catggagttg cgcgcggcga tcgacgcggc gacgt 705

<210> 56
<211> 626
<212> DNA
<213> Mycobacterium fortuitum

<400> 56
tccgtcccggt cgtggcggcg atcaaggagt tcttcggaac gtcgcagctg tcgcagttca 60
tggatcagaa caaccgctg tcgggtctga cccacaagcg tcgtctgtcg gcgtgggccc 120
ccggcggtct gtcccgtgag cgcgcggcc ttgaggtccg cgacgtccac tcgtcgact 180
acggcgcgat gtgtccgac gagacccctg aggggtccga catcggtctg atcggttcgc 240
tttcggtgta cgcgcgggtc aaccggttcg gtttcacgca gaccccgtag cgcaagggtc 300
tcgacggtgt ggtcaccgat cakatkact acctgaccgc cgacgaggag gaccgccacg 360
tcgtggcgca ggccaactcg ccgatcgacc cggacggccg gttcaccgag gaccgcgtga 420
tggttcgtcg taaggcgggc gaggtcgaga atgtggcccc gtccgacgtc gactacatgg 480
acgtctcgcc gcgccagatg gtgtccgtcg cgaccgcgat gatccggtc ctcgagcacg 540
acgacgccaa ccgcgccctg atgggtgcc aatgcagcg ccaggcggtt ccgctggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 57
 <211> 705
 <212> DNA
 <213> Mycobacterium smegmatis

<400> 57
 cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgcccc gtcgtggcgg 60
 cgatcaagga gttcttcggc accagccagc tgtcgagtt catggaccag aacaaccgcg 120
 tgtcggttct gaccacaag cgctgtctgt cggcgttggg ccccggcgtg ctgtcccgtg 180
 agcgcgccgg ccttgaggtc cgcgacgtgc actccagcca ctacggccgc atgtgcccga 240
 tcgagacccc tgagggtccg aacatcggtc tgatcggtc gctgtcgggt tacgcccggg 300
 tcaaccggtt cggcttcacg gagacgcctt accgcaaggt tgtcgacggt gtggtcagcg 360
 accagatcga ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact 420
 cgccgatcga caccgacggt cgcttcaccg aggaccgctg gatggtccgc cgtaagggtg 480
 gcgaggtcga gaacgtggcc ccgtccgacg tcgactacat ggacgtctca ccgcgccaga 540
 tgggtgtctgt cgcgaccgcg atgatcccgt tcttcgagca cgacgacgcc aaccgtgccc 600
 tgatgggtgc caacatgcag cgccaggcag ttccgctggt acgcagcgag gccccgctgg 660
 tcggtaccgg tatggagctg cgcgcggcga tcgacgcggc gacgt 705

<210> 58
 <211> 687
 <212> DNA
 <213> Mycobacterium chelonae

<400> 58
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcgagtt catggaccag aacaaccgcg tgtcggttct 120
 gaccacaag cgctgcctgt cggcgttggg ccccggcgtg ctgtcccgtg agcgtgcggg 180
 ccttgaggtc cgcgacgtgc actccagcca ctacggccgc atgtgcccga tcgagacccc 240
 tgagggtccg aacatcggtc tgatcggttc gctgtcgggt tacgcccggg tcaaccggtt 300
 cggcttcacg gagacgcgt accgcaaggt cgtcgacggt gtggtctccg accagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgccgatcga 420
 cgcggacggc agcttcaccg aggatcgctg gatggtccgc cgtaagggtg gcgaggtcga 480
 gaacgtggcc ccgtccgacg tcgactacat ggacgtctcg ccgcgccaga tgggtgtctgt 540
 cgcgaccgcg atgatcccgt tcttcgagca cgacgacgcc aaccgcgccc tgatgggtgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gccccgctgg tcggtaccgg 660
 catggagtgt cgcgcggcga tcgacgc 687

<210> 59
 <211> 687
 <212> DNA
 <213> Mycobacterium fortuitum

<400> 59
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcgga acgtcgagc tgtcgagtt catggatcag aacaaccgcg tgtcggttct 120
 gaccacaag cgctgtctgt cggcgttggg ccccggcgtg ctgtcccgtg agcgcgccgg 180
 ccttgaggtc cgcgacgtgc actcgctgca ctacggccgc atgtgcccga tcgagacccc 240
 tgagggtccg aacatcggtc tgatcggttc gctttcgggt tacgcgcggg tcaaccggtt 300
 cggtttcacg gagacccgt accgcaaggt cgtcgacggt gtggtcaccg aycagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgccgatcga 420
 cccggacggc cggttcaccg aggaccgctg gatggttcgc cgtaaggggc gcgaggtcga 480
 gaacgtggcc ccgtccgacg tcgactacat ggacgtctcg ccgcgccaga tgggtgtcgt 540
 cgcgaccgcg atgatcccgt tcttcgagca cgacgacgcc aaccgtgccc tgatgggtgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gccccgctgg tcggtaccgg 660
 tatggagctg cgcgcggcga tcgacgc 687

<210> 60
 <211> 687
 <212> DNA
 <213> Mycobacterium fortuitum

<400> 60
 ggaggcgatc acaccgcaga ccctgatcaa catccgcccc gtcgtggcgg cgatcaagga 60
 gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgcg tgtcgggtct 120
 gacccacaag cgtcgtctgt cggcgctggg ccccggcggt ctgtcccgtg agcgcgcgg 180
 ccttgaggtc cgcgacgtgc actccagcca ctacggccgc atgtgccga tcgagacccc 240
 tgagggtccg aacatcggtc tgatcggctc gctgtcgggtg tacgcccggg tcaaccggtt 300
 cggcttcacg gagacgcctt accgcaaggt tgtcgacggt gtggtcagcg accagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgcgcatcga 420
 caccgacggt cgcttcaccg aggaccgctg gatggtccgc cgtaagggtg gcgaggtcga 480
 gaacgtggcc ccgtccgacg tcgactacat ggacgtctca ccgcgccaga tgggtgtctgt 540
 cgcgaccgcg atgatcccgt tctctgagca cgacgacgcc aaccgtgccc tgatgggtgc 600
 caacatgcag cgccaggcag ttccgctggt acgcagcgag gccccgctgg tcggtaccgg 660
 tatggagctg cgcgcggcga tcgacgc 687

<210> 61
 <211> 687
 <212> DNA
 <213> Mycobacterium fortuitum

<400> 61
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcgga acgtcgcagc tgtcgcagtt catggatcag aacaaccgcg tgtcgggtct 120
 gacccacaag cgtcgtctgt cggcgctggg ccccggcggt ctgtcccgtg agcgcgcgg 180
 ccttgaggtc cgcgacgtcc actcgtcgca ctacggccgc atgtgccga tcgagacccc 240
 tgagggtccg aacatcggtc tgatcgggtc gctttcgggtg tacgcgcggg tcaaccggtt 300
 cggtttcacg gagaccccgt accgcaaggt cgtcgacggt gtggtcaccg atcagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgcgcatcga 420
 cccggacggc cggttcaccg aggaccgctg gatggttcgt cgtaaggggcg gcgaggtcga 480
 gaacgtggcc ccgtccgacg tcgactacat ggacgtctcg ccgcgccaga tgggtgtccgt 540
 cgcgaccgcg atgatcccgt tctctgagca cgacgacgcc aaccgcgcc tgatgggtgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gccccgctgg tcggtaccgg 660
 tatggagctg cgcgcggcga tcgacgc 687

<210> 62
 <211> 687
 <212> DNA
 <213> Mycobacterium fortuitum

<400> 62
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcgga acgtcgcagc tgtcgcagtt catggatcag aacaaccgcg tgtcgggtct 120
 gacccacaag cgtcgtctgt cggcgctggg ccccggcggt ctgtcccgtg agcgcgcgg 180
 ccttgaggtc cgcgacgtcc actcgtcgca ctacggccgc atgtgccga tcgagacccc 240
 tgagggtccg aacatcggtc tgatcgggtc gctttcgggtg tacgcgcggg tcaaccggtt 300
 cggtttcacg gagaccccgt accgcaaggt cgtcgacggt gtggtcaccg atcagatcga 360
 ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgcgcatcga 420
 cccggacggc cggttcaccg aggaccgctg gatggttcgt cgtaaggggcg gcgaggtcga 480
 gaacgtggcc ccgtccgacg tcgactacat ggacgtctcg ccgcgccaga tgggtgtccgt 540
 cgcgaccgcg atgatcccgt tctctgagca cgacgacgcc aaccgcgcc tgatgggtgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gccccgctgg tcggtaccgg 660
 tatggagctg cgcgcggcga tcgacgc 687

<210> 63
 <211> 687
 <212> DNA
 <213> Mycobacterium fortuitum

<400> 63
 ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg cgatcaagga 60
 gttcttcgga acgtcgcagc tgtcgcagtt catggatcag aacaaccgcg tgtcgggtct 120
 gacccacaag cgtcgtctgt cggcgctggg ccccggcggt ctgtcccgtg agcgcgcgg 180

27/9/94

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| ccttgagggtc | cgcgacgtcc | actcgctcgca | ctacggccgc | atgtgtccga | tcgagacccc | 240 |
| tgagggtccg | aacatcggtc | tgatcggttc | gctttcggtg | tacgcgcggg | tcaacccgtt | 300 |
| cggtttcata | gagaccccg | accgcaagg | cgtcgacggt | gtggtcaccg | atcagatcga | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcggtgg | caggccaact | cgccgatcga | 420 |
| cccggacggc | cggttcaccg | aggaccgctg | gatggttcgt | cgtaagggcg | gcgaggtcga | 480 |
| gaacgtggcc | ccgtccgacg | tcgactacat | ggacgtctcg | ccgcgccaga | tggtgtccgt | 540 |
| cgcgaccgcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gccccgctgg | tcggtaccgg | 660 |
| tatggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 64
 <211> 626
 <212> DNA
 <213> Mycobacterium fortuitum

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 64 | | | | | | |
| tccgtccggt | cggtgccg | atcaaggagt | tcttcggaac | cagccagctg | tcgcagttca | 60 |
| tggaaccagaa | caaccgcgtc | tccggtctca | cccacaagcg | ccgcctctcg | gcgctggggc | 120 |
| cgggcggtct | gtcccgtgag | cgcgcgggtc | tggaagtctg | tgacgtgcac | ccgtcgcaact | 180 |
| acggccggat | gtgcccgatc | gagacgcggg | aagggccgaa | catcggtctg | atcggttcac | 240 |
| tgctcggtgta | cggccgggtc | aaccggttcg | ggttccatcg | gacgcctac | cgcaagggtgg | 300 |
| tcgacggggg | cgtttccgac | gagatccact | acctgaccgc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcgca | ggccaactcg | ccgatcgacg | cgcaggggccg | cttcgtcgag | ccgcgcgtgc | 420 |
| tggtccgccc | gaaggcgggc | gaggtcgagt | acgtgccctc | gtcagagggtg | gactacatgg | 480 |
| acgtgtcgcc | gcgccagatg | gtgtcggtgg | ccaccgcgat | gattccgttc | ctcgagcacg | 540 |
| atgacgcaa | ccgcgccttg | atgggtgcca | acatgcagcg | scaggcggtc | ccgctgggtgc | 600 |
| gcagcgaggc | accgctgggtc | ggtacc | | | | 626 |

<210> 65
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 65 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tgctcggtct | gaccacaaag | cgctgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | tctggaagta | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | 240 |
| tcgagacgcc | ggaaggcccc | aacatcggcc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tcaacccgtt | cggcttcata | gagacgcctt | atcggaagg | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctcacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagacggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgattccgt | tcctcgaaaca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 66
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

<221> modified_base
 <222> (90)...(90)
 <223> n = g,a,c or t

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 66 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagn | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tgctcggtct | gaccacaaag | cgctgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | gctggaagta | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | 240 |

28 4/295

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| tgcgagacgcc | ggaaggcccc | aacatcgccc | tgatcggttc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgtt | cggcttcac | gagacgcctt | atcggaaggt | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctaacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgar | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 67

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 67

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tttcgggcct | caccacaag | cgtcgtctgt | cgccgctggg | gcccgccggt | ctgtcccgtg | 180 |
| agcgggccc | cctggaggtc | cgtgacgtcc | accgctcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagactcc | ggaaggcccc | aacatcgccc | tgatcggttc | actgtcgggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggcttcac | gagacgcctt | atagacgagt | ggtgagcggg | gttgtcacgg | 360 |
| atgagatcca | ctacctcacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgagaacggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tcgaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | ccgcagcgar | gcgccgctgg | 660 |
| tgggtaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 68

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 68

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgctcgagtt | catggaccag | aacaaccgcg | 120 |
| tgctgggtct | gaccacaag | cgtcgctctgt | cgccgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgccc | cctggaggtc | cgtgacgtcc | accgctcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | ggaaggcccc | aacatcgccc | tgatcggttc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgtt | cgggttcac | gagacgcctt | accgcaaggt | ggtggaaggt | gtcgtctccg | 360 |
| acgaaatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggt | cggttcgctg | agccacgcgt | tctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgar | gcaccgctgg | 660 |
| tgggcaccgg | tatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 69

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 69

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tttcgggcct | caccacaag | cgtcgtctgt | cgccgctggg | gcccgccggt | ctgtcccgtg | 180 |
| agcgggccc | cctggaggtc | cgtgacgtcc | accgctcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagactcc | ggaaggcccc | aacatcgccc | tgatcggttc | actgtcgggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggcttcac | gagacgcctt | atagacgagt | ggtgagcggg | gttgtcacgg | 360 |
| atgagatcca | ctacctcacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgagaacggc | cggttcgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tcgactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggtaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 70

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 70

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgctg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tttcgggcct | caccacaag | cgtcgtctgt | cggcgctggg | gccggcggt | ctgtcccgtg | 180 |
| agcgggccgg | cctggaggtc | cgtagcgtcc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagactcc | ggaaggccc | aacatcgcc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggttcatc | gagacgcgt | accgcgaggt | ggtcgacggt | gtggtgacgg | 360 |
| acgagatcca | ctacctacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgagaacggc | cgcttcgtcg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggtaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 71

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 71

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tgctcgggtct | gaccacaag | cgtcgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | tctggaagta | cgtagcgtgc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagacgcc | ggaaggccc | aacatcgcc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tcaacccgtt | cggttcatc | gagacgcctt | atcggaaggt | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcc | atgattccgt | tcctcgaaca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 72

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 72

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgcg | 120 |
| tgctcgggtct | gaccacaag | cgtcgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | tctggaagta | cgtagcgtgc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagacgcc | ggaaggccc | aacatcgcc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tcaacccgtt | cggttcatc | gagacgcctt | atcggaaggt | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcc | atgattccgt | tcctcgaaca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

24/4/97

Q1
Cont.

<210> 73
<211> 705
<212> DNA
<213> Mycobacterium gordonae

<221> modified_base
<222> (690)...(690)
<223> n = g,a,c or t

<400> 73
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtcgtcgccg 60
cgatcaagga gttcttcggc accagccagc tctcgcagtt catggaccag aacaaccgcg 120
tttcggggcct caccacaag cgtcgtctgt cggcgtctgg gccggcggt ctgtcccggtg 180
agcgggcccgg cctggaggtc cgtgacgtcc acccgtcgca ctacggccgc atgtgcccga 240
tcgagactcc ggaaggcccg aacatcggcc tgatcggttc gctgtcgggtg tacgcgcggg 300
tgaacccgtt cggcttcacg gagacgcctt accgcgaggt ggtcgacggt gtggtgacgg 360
acgagatcca ctacctcacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact 420
cgccgatcga cgagaacggc cgtttcgctc agccgcgcgt tctggtccgc cgcaaggcgg 480
gcgaggtgga gtacgtgccc tcgtccgagg tggactacat ggacgtctcg ccgcgccaga 540
tggtgtcggg ggccaccgag atgattccgt tcctcgaaca cgacgacgcc aaccgtgccc 600
tgatgggtgc caacatgcag cggcaggcgg ttccgctggt gcgcagcgag gcgcgcgtgg 660
tgggtaccgg catggagttg cgcgcggcgn tcgacgcggc gacgt 705

<210> 74
<211> 705
<212> DNA
<213> Mycobacterium gordonae

<400> 74
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtcgtcgccg 60
cgatcaagga gttcttcggc accagccagc tctcgcagtt catggaccag aacaaccgcg 120
tgtcgggtct gaccacaag cgtcgtctgt cggcgtctgg gccgggtggt ctgtcccggtg 180
agcgtgcggg tctggaagta cgtgacgtgc acccgtcgca ctacggccgc atgtgcccga 240
tcgagacgcc ggaaggcccg aacatcggcc tgatcggttc gctgtcgggtg tacgcgcggg 300
tcaacccgtt cggcttcacg gagacgcctt atcggaaggt ggtggatgga gtcgtttctg 360
acgagatcca ctacctcacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
cgccgatcga cgagagcggc cgttttgctg agccgcgcgt tctggtccgc cgcaaggcgg 480
gcgaggtgga gtacgtgccc tcgtccgagg tggactacat ggacgtctcg ccgcgccaga 540
tggtgtcggg ggccaccgag atgattccgt tcctcgaaca cgacgacgcc aaccgtgccc 600
tgatgggtgc caacatgcag cggcaggcgg ttccgctggt gcgcagcgag gcaccgctgg 660
tgggcaccgg catggagttg cgcgcggcga tcgacgcggc gacgt 705

<210> 75
<211> 705
<212> DNA
<213> Mycobacterium gordonae

<400> 75
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtcgtcgccg 60
cgatcaagga gttcttcggc accagccagc tctcgcagtt catggaccag aacaaccgcg 120
tgtcgggtct gaccacaag cgtcgtctct cggcgtctgg gccgggtggt ctgtcccggtg 180
agcgcgcggg tctggaggtc cgtgacgtcc acccgtcgca ctacggccgc atgtgcccga 240
tcgagacccc ggaagggtcg aacatcggcc tgatcggttc gctgtcgggtg tacgcgcggg 300
tcaacccgtt cggcttcacg gagacgcctt accgggaggt tgtggacggg gtcgtcacag 360
acgagatcca ctacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact 420
cgccgatcga cgagaacggc cgttttgctg agccgcgcgt tctggtccgc cgcaaggcgg 480
gcgaggtgga gtacgtgccc tcgtccgagg tggactacat ggacgtctcg ccgcgccaga 540
tggtgtcggg ggccaccgag atgattccgt tcctcgagca cgacgacgcc aaccgtgccc 600
tgatgggctc caacatgcag cggcaggcgg ttccgctggt gcgtagcgar gcgcgcgtgg 660
tgggcaccgg catggagctg cgcgcggcga tcgacgcggc gacgt 705

28/4/98

<210> 76
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

<400> 76

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcaagt | catggaccag | aacaaccgcg | 120 |
| tgtcgggtct | gacccacaag | cgtcgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | tctggaagta | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacgcc | ggaaggcccg | aacatcggcc | tgatcggttc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccggt | cggcttcata | gagacgcctt | atcggaaggt | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctcacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcg | atgattccgt | tcctcgaaca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggg | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 77
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

<400> 77

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgctcgcaagt | catggaccag | aacaaccgcg | 120 |
| tgtcgggtct | gactcacaag | cgtcgtctgt | cggcgctggg | gcctggcggt | ctgtcacgtg | 180 |
| agcgcgccgg | cctggaagtc | cgtgacgtcc | acccgtcgca | ctacggcccg | atgtgcccga | 240 |
| tcgagacccc | ggaaggcccg | aacatcggcc | tgatcggctc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccggt | cggcttcata | gagacgcctt | atcggaaggt | ggtcgacggg | gtggtctccg | 360 |
| atgagatcca | ctacctgacc | gccgacgaag | gagaccccca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgccg | agccgcgcgt | tctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtcccg | tcgtccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggg | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | tatggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 78
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

<221> modified_base
 <222> (688)...(688)
 <223> n = g,a,c or t

<221> modified_base
 <222> (701)...(701)
 <223> n = g,a,c or t

<221> modified_base
 <222> (704)...(705)
 <223> n = g,a,c or t

<400> 78

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcaagt | catggaccag | aacaaccgcg | 120 |
| tgtcgggtct | gacccacaag | cgtcgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | 180 |
| agcgtgcggg | tctggaagta | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacgcc | ggaaggcccg | aacatcggcc | tgatcggttc | gctgtcgggt | tacgcgcggg | 300 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| tcaaccggtt | cggcttcac | gagacgcctt | atcgggaaggt | ggtggatgga | gtcgtttctg | 360 |
| acgagatcca | ctacctcacc | gccgacgagg | aggaccgcca | cgtgggtggcg | caggccaact | 420 |
| cgccgatcga | cgagagcggc | cggtttgctg | agccgcgcgt | tctgggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgattccgt | tcctcgaaca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggnga | tcgacgcggc | nacnn | | 705 |

<210> 79

<211> 705

<212> DNA

<213> Mycobacterium gordonae

<400> 79

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccccc | 120 |
| tgctcgggtct | caccacacaag | cggcgtctgt | cggcgcctcg | gccgggtggt | ctgtcgcgtg | 180 |
| agcgtgcggg | tctggaagtc | cgtgacgtcc | accgcgcga | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | ggaagggtccg | aacatcgccc | tgatcggtc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaaccggtt | cggcttcac | gagacgcctt | atagacgcgt | cgtcagcgga | gttgtcacgg | 360 |
| atgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtgggtggcg | caggccaact | 420 |
| cgcgcgtggc | cgggtcttct | cactttgctg | agccgcgcgt | tctgggtccgc | cgcaaggcgg | 480 |
| gcgaggtgga | gtacgttccg | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 80

<211> 687

<212> DNA

<213> Mycobacterium gordonae

<400> 80

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaacccgc | tgctcgggtct | 120 |
| gaccacacaag | cgtcgtctgt | cggcgtctgg | gccgggtggt | ctgtcccgtg | agcgtgcggg | 180 |
| tctggaagta | cgtgacgtgc | accgcgcga | ctacggccgc | atgtgcccga | tcgagacgcc | 240 |
| ggaaggcccc | aacatcgccc | tgatcggttc | gctgtcgggtg | tacgcgcggg | tcaaccggtt | 300 |
| cggcttcac | gagacgcctt | atcgggaaggt | ggtggatgga | gtcgtttctg | acgagatcca | 360 |
| ctacctcacc | gccgacgagg | aggaccgcca | cgtgggtggcg | caggccaact | cgccgatcga | 420 |
| cgagagcggc | cggtttgctg | agccgcgcgt | tctgggtccgc | cgcaaggcgg | gcgaggtgga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgaaca | cgacgacgcc | aaccgtgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 81

<211> 687

<212> DNA

<213> Mycobacterium gordonae

<400> 81

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaacccgc | tctcgggtct | 120 |
| gaccacacaag | cgtcgtctgt | cggcgtctgg | tcgggtggt | ctgtcccgtg | agcgcgcggg | 180 |
| tctggaggtc | cgtgacgtcc | accgcgcga | ctacggccgc | atgtgcccga | tcgagacccc | 240 |
| ggaagggtccg | aacatcgccc | tgatcggtc | gctgtcgggtg | tacgcgcggg | tcaaccggtt | 300 |
| cggcttcac | gagacgcctt | accgggaggt | tgtggacggg | gtcgttacag | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtgggtggcg | caggccaact | cgccgatcga | 420 |
| cgagagcggc | cggtttgctg | agccgcgcgt | tctgggtccgc | cgcaaggcgg | gcgaggtgga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tggtgtcgg | 540 |

27/100

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggccaccgcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggccc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgcgctgg | tgggtaccgg | 660 |
| catggagctg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 82
 <211> 687
 <212> DNA
 <213> Mycobacterium gordonae

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 82 | | | | | | |
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgc | tgctgggtct | 120 |
| gacccacaag | cgctcgtctg | cggcgctggg | gccgggtggt | ctgtcccgtg | agcgtgcggg | 180 |
| tctggaagta | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgccga | tcgagacgcc | 240 |
| ggaaggcccc | aacatcgccc | tgatcgggtc | gctgtcggtg | tacgcgcggg | tcaaccggtt | 300 |
| cggttcatc | gagacgcctt | atcggaaggt | ggtggatgga | gtcgtttctg | acgagatcca | 360 |
| ctacctcacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | cgccgatcga | 420 |
| cgagagcggc | cggtttgctg | agccgcgcgt | tctggtccgc | cgcaaggcgg | gcgaggtgga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcg | atgattccgt | tcctcgaaaca | cgacgacgcc | aaccgtgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggcaccgg | 660 |
| catggagtgt | cgcgcgccga | tcgacgc | | | | 687 |

<210> 83
 <211> 687
 <212> DNA
 <213> Mycobacterium gordonae

<221> modified_base
 <222> (47)...(47)
 <223> n = g,a,c or t

<221> modified_base
 <222> (64)...(64)
 <223> n = g,a,c or t

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 83 | | | | | | |
| ggaggcgatc | acaccgcaga | ctctgatcaa | catccggccc | gtcgtcnccg | cgatcaagga | 60 |
| gttnttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgc | tgctcggttt | 120 |
| gacgcacaag | aggcgtctgt | cggcgctggg | gccgggtggt | ctgtcccgtg | agcgggcccg | 180 |
| cctggaggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgccga | tcgagacccc | 240 |
| ggaaggtccg | aacatcggtc | tgatcgggtc | gctgtcggtg | tacgcgcggg | tcaaccggtt | 300 |
| cggttcatc | gagacgcctt | atcggaaggt | ggtggacggg | gtcgtctcgg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgatcga | 420 |
| cgagaacggc | cgcttcgtcg | agccgcgtgt | gctggtccgc | cggaaggcgg | gcgaggtgga | 480 |
| gtacgtgccg | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggccc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgtagcgag | gcgcgcttgg | tgggcaccgg | 660 |
| gatggagtgt | cgcgcgccga | tcgacgc | | | | 687 |

<210> 84
 <211> 705
 <212> DNA
 <213> Mycobacterium gordonae

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 84 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgc | 120 |
| tgctccgtct | gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggctc | gctgtcggtg | tacgcgcggg | 300 |

28/10/01

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgaacccggt | cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 85

<211> 705

<212> DNA

<213> Mycobacterium intracellulare

<400> 85

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgca | ctacggccgg | atgtgccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccggt | cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaagcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 86

<211> 705

<212> DNA

<213> Mycobacterium intracellulare

<400> 86

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgca | ctacggccgg | atgtgccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccggt | cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 87

<211> 705

<212> DNA

<213> Mycobacterium intracellulare

<400> 87

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgca | ctacggccgg | atgtgccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccggt | cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | 540 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 88
 <211> 705
 <212> DNA
 <213> Mycobacterium intracellulare

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 88 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgcgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cgggttcac | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcacccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 89
 <211> 705
 <212> DNA
 <213> Mycobacterium intracellulare

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 89 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgcgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccctt | cgggttcac | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcacccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgttctcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 90
 <211> 705
 <212> DNA
 <213> Mycobacterium intracellulare

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 90 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgcgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cgggttcac | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcacccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

30
75/103

<210> 91
<211> 705
<212> DNA
<213> Mycobacterium intracellulare

<400> 91

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggctga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 92
<211> 705
<212> DNA
<213> Mycobacterium intracellulare

<400> 92

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggctga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 93
<211> 705
<212> DNA
<213> Mycobacterium intracellulare

<400> 93

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggtc | gctgtcgggt | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgaggctga | gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgcgcgtgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 94
<211> 705
<212> DNA
<213> Mycobacterium intracellulare

<400> 94

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgagggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgccgcggcg | tcgacgcggc | gacgt | | 705 |

<210> 95

<211> 705

<212> DNA

<213> Mycobacterium intracellulare

<400> 95

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgagggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtca | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgccgcggcg | tcgacgcggc | gacgt | | 705 |

<210> 96

<211> 705

<212> DNA

<213> Mycobacterium intracellulare

<400> 96

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | 120 |
| tgtccggtct | gaccacaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgtgacgtcc | accctcgcga | ctacggccgg | atgtgcccg | 240 |
| tcgagacccc | ggagggtccc | aacatcggtc | tgatcggttc | gctgtcggtg | tacgcgcggg | 300 |
| tgaacccgtt | cggtttcatc | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | 360 |
| acgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | 480 |
| gcgagggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccgt | tcctcgagca | cgatgacgcc | aaccgtgccc | 600 |
| tgatggggcg | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgccgcggcg | tcgacgcggc | gacgt | | 705 |

<210> 97

<211> 687

<212> DNA

<213> Mycobacterium avium

<400> 97

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgcg | tgtccggtct | 120 |
| gaccacaag | cgccgcctct | cgccgctggg | ccccggcggt | ctgtcccgtg | agcgcgccgg | 180 |

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| cctggagggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | tgaacccctt | 300 |
| cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctgtggcg | caggccaact | cgccgatcga | 420 |
| cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | gcgagggtcga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccactggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 98

<211> 687

<212> DNA

<213> Mycobacterium avium complex (MAC)

<400> 98

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgc | tgtccggtct | 120 |
| gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | agcgcgcggg | 180 |
| cctggagggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | tgaacccctt | 300 |
| cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctgtggcg | caggccaact | cgccgatcga | 420 |
| cgccaagggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggcgg | gcgagggtcga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtctcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 99

<211> 687

<212> DNA

<213> Mycobacterium avium complex (MAC)

<400> 99

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgc | tgtccggtct | 120 |
| gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | agcgcgcggg | 180 |
| cctggagggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | tgaacccgtt | 300 |
| cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctgtggcg | caggccaact | cgccgatcga | 420 |
| cgccaagggc | cggttcgagg | agtcgcgcgt | cctggtccgc | cggaaggcgg | gcgagggtcga | 480 |
| gtacgtgccc | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgatcccg | tcctcgagca | cgatgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 100

<211> 687

<212> DNA

<213> Mycobacterium avium complex (MAC)

<400> 100

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgagccagtt | catggaccag | aacaaccgc | tgtccggtct | 120 |
| gacccacaag | cgccgcctct | cggcgctggg | ccccggcggt | ctgtcccgtg | agcgcgcggg | 180 |
| cctggagggtc | cgtgacgtcc | acccctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcggtc | gctgtcggtg | tacgcgcggg | tgaacccgtt | 300 |
| cgggttcac | gagaccccg | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctgtggcg | caggccaact | cgccgatcga | 420 |

cgccaagggc cggttcgagg agtcgcgcgt gctggtccgc cggaggcgcg gcgaggtcga 480
 gtacgtgccc tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgcggg 540
 ggccaccgag atgatcccggt tcctcgagca cgatgacgcc aaccgtgccc tgatgggcgc 600
 caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
 catggagctg cgcgcgccga tcgacgc 687

<210> 101
 <211> 705
 <212> DNA
 <213> Mycobacterium kansasii

<400> 101
 cccaggacgt ggaggcgatc acaccgcaga cactgatcaa catccgcccg gtgggtgcgcg 60
 ccatcaagga gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg 120
 tgtcgggcct caccacaag cgccggcttt cggcgctggg gccgggcggt ctgtcccggg 180
 agcgtgccgg gctggaagt cgtgacgtgc acccgtcgca ctacggccgc atgtgccga 240
 tcgagacccc ggagggtccc aacatcggcc tgatcggtc gctgtcgggt tacgcacggg 300
 tcaaccggtt cggcttcac gagacgcggt accgcaaggt gatcgacggt ctcgttactg 360
 atgagatcca ctacttgac gccgacgagg aggaccgcca cgtcgtggca caggccaact 420
 cgccgatcga cgctgagggc cggttcgtcg agccgcgcgt gctggtgcgc cgcaaggccg 480
 gcgaggtcga gtacgtggcc tcgtcggagg tggactacat ggacgtctcg ccgcgccaga 540
 tgggtgcggg ggccacggcc atgattccgt tcctcgagca cgacgacgcc aaccgggctc 600
 tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagttg cgcgcgccga tcgacgcggc gacgt 705

<210> 102
 <211> 705
 <212> DNA
 <213> Mycobacterium kansasii

<400> 102
 cccaggacgt ggaggcgatc acaccgcaga cactgatcaa catccgcccg gtgggtgcgcg 60
 ccatcaagga gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg 120
 tgtcgggcct caccacaag cgccggcttt cggcgctggg gccgggcggt ctgtcccggg 180
 agcgtgccgg gctggaagtt cgtgacgtgc acccgtcgca ctacggccgc atgtgccga 240
 tcgagacccc ggagggtccc aacatcggcc tgatcggtc gctgtcgggt tacgcacggg 300
 tcaaccggtt cggcttcac gagacgcggt accgcaaggt gatcgacggt ctcgttactg 360
 atgagatcca ctacttgac gccgacgagg aggaccgcca cgtcgtggca caggccaact 420
 cgccgatcga cgctgagggc cggttcgtcg agccgcgcgt gctggtgcgc cgcaaggccg 480
 gcgaggtcga gtacgtggcc tcgtcggagg tggactacat ggacgtctcg ccgcgccaga 540
 tgggtgcggg ggccacggcc atgattccgt tcctcgagca cgacgacgcc aaccgggctc 600
 tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
 tgggcaccgg catggagttg cgcgcgccga tcgacgcggc gacgt 705

<210> 103
 <211> 705
 <212> DNA
 <213> Mycobacterium kansasii

<400> 103
 cccaggacgt ggaggcgatc acaccgcaga cactgatcaa catccgcccg gtgggtgcgcg 60
 ccatcaagga gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg 120
 tgtcgggcct caccacaag cgccggcttt cggcgctggg gccgggcggt ctgtcccggg 180
 agcgtgccgg gctggaagt cgtgacgtgc acccgtcgca ctacggccgc atgtgccga 240
 tcgagacccc ggagggtccc aacatcggcc tgatcggtc gctgtcgggt tacgcacggg 300
 tcaaccggtt cggcttcac gagacgcggt accgcaaggt gatcgacggt ctcgttactg 360
 atgagatcca ctacttgac gccgacgagg aggaccgcca cgtcgtggca caggccaact 420
 cgccgatcga cgctgagggc cggttcgtcg agccgcgcgt gctggtgcgc cgcaaggccg 480
 gcgaggtcga gtacgtggcc tcgtcggagg tggactacat ggacgtctcg ccgcgccaga 540
 tgggtgcggg ggccacggcc atgattccgt tcctcgagca cgacgacgcc aaccgggctc 600
 tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660

34
2A107

tgggcaccgg catggagttg cgcgcggcga tcgacgcggc gacgt

705

<210> 104
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 104
cccaggacgt ggagggcgtc acaccgcaga cactgatcaa catccgcccg gtggtcgccc 60
ccatcaagga gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg 120
tgtcgggcct caccacaag cgcgggcttt cggcgctggg gccgggagggt ctgtcccggg 180
agcgtgccgg gctggaagtg cgtgacgtgc acccgtcgca ctacggccgc atgtgccga 240
tcgagacccc ggaggggtccc aacatcggcc tgatcggtgc gctgtcgggtg tacgcacggg 300
tcaaccggtt cggcttcctc gagacgcggt accgcaagggt gatcgacggt ctcgttactg 360
atgagatcca ctacttgacg gccgacgagg aggaccgcca cgtcgtggca caggccaact 420
cgccgatcga cgctgagggc cggttcgtcg agccgcgcgt gctggtgcgc cgcaaggccg 480
gcgaggtcga gtacgtggcc tcgtcggagg tggactacat ggacgtctcg ccgcgccaga 540
tggtgtcggg ggccacggcc atgattccgt tcttcgagca cgacgacgcc aaccggggtc 600
tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
tgggcaccgg catggagttg cgcgcggcga tcgacgcggc gacgt 705

<210> 105
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 105
cccaggacgt ggagggcgtc acaccgcaga cactgatcaa catccgcccg gtggtcgccc 60
ccatcaagga gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg 120
tgtcgggcct caccacaag cgcgggcttt cggcgctggg gccgggagggt ctgtcccggg 180
agcgtgccgg gctggaagtg cgtgacgtgc acccgtcgca ctacggccgc atgtgccga 240
tcgagacccc ggaggggtccc aacatcggcc tgatcggtgc gctgtcgggtg tacgcacggg 300
tcaaccggtt cggcttcctc gagacgcggt accgcaagggt gatcgacggt ctcgttactg 360
atgagatcca ctacttgacg gccgacgagg aggaccgcca cgtcgtggca caggccaact 420
cgccgatcga cgctgagggc cggttcgtcg agccgcgcgt gctggtgcgc cgcaaggccg 480
gcgaggtcga gtacgtggcc tcgtcggagg tggactacat ggacgtctcg ccgcgccaga 540
tggtgtcggg ggccacggcc atgattccgt tcttcgagca cgacgacgcc aaccggggtc 600
tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
tgggcaccgg catggagttg cgcgcggcga tcgacgcggc gacgt 705

<210> 106
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 106
cccaggacgt ggagggcgtc acaccgcaga cactgatcaa catccgcccg gtggtcgccc 60
ccatcaagga gttcttcggc accagccagc tgatcgagtt catggaccag aacaaccggt 120
tgtcgggcct gaccacaag cgcgggcttt cggcgctggg gccgggagggt ctgtcccgtg 180
agcgtgccgg cctggaagtg cgtgacgtgc acccttcgca ctacggccgg atgtgccga 240
tcgagacccc ggaggggtccc aacatcggcc tgatcggtgc gctgtcgggtg tacgcgcggg 300
tcaaccggtt cggcttcctc gagacgcggt accggaagggt gatcgacggg ctggtcacgg 360
atgagatcca ctacctgacg gccgacgaag aggaccgcca cgtcgtggca caggccaact 420
cgccgatcga cgctgacggc cgttttgtcg agccgcgcgt tctggtgcgc cgcaaggcgg 480
gcgaggtcga atacgtcgcc tcttcgagg tggactacat ggacgtctcg ccacgcaaaa 540
tggtgtcggg ggccaccgcg atgatccggt tcttcgagca cgacgacgcc aaccgggcac 600
tgatggggcg caacatgcag cgtcaggcgg ttccgctggt acgcagcgag gcgccgctgg 660
tgggcaccgg catggagttg cgcgcggcga tcgacgcggc gacgt 705

385106

<210> 107
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 107

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgccc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | 120 |
| tgctcgggcct | caccacacaag | cgccggcttt | cggcgctggg | gccgggagg | ctgtcccggg | 180 |
| agcgtgccc | gctggaagt | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | ggagggtccc | aacatcgccc | tgatcggtc | gctgtcggg | tacgcacggg | 300 |
| tcaaccggtt | cggcttcac | gagacgcgt | accgcaaggt | gatcgacgg | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 108
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 108

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgccc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | 120 |
| tgctcgggcct | caccacacaag | cgccggcttt | cggcgctggg | gccgggagg | ctgtcccggg | 180 |
| agcgtgccc | gctggaagt | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | ggagggtccc | aacatcgccc | tgatcggtc | gctgtcggg | tacgcacggg | 300 |
| tcaaccggtt | cggcttcac | gagacgcgt | accgcaaggt | gatcgacgg | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 109
<211> 626
<212> DNA
<213> Mycobacterium kansasii

<400> 109

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| tccgcccgg | ggtcgccgc | atcaaggagt | tcttcggcac | cagccagctc | tcccagttca | 60 |
| tggaccagaa | caaccgctg | tcgggacctca | cccacaagcg | ccggctttcg | gcgctggggc | 120 |
| cgggcggtct | gtcccgggag | cgtgcggggc | tggaaagtgcg | tgacgtgcac | ccgtcgcaact | 180 |
| acggccgcat | gtgcccgatc | gagaccccgg | aggggtcccaa | catcggcctg | atcggtctgc | 240 |
| tgctcgggtga | cgacgggtc | aaccggttcg | gcttcacatga | gacgcggtac | cgcaagggtga | 300 |
| tcgacggtct | cgttactgat | gagatccact | acttgacggc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcaca | ggccaactcg | ccgatcgagc | ctgagggccg | gttcgtcgag | ccgcgcgtgc | 420 |
| tggtgcgcgc | caaggccggc | gaggtcgag | acgtggcctc | gtcggagggtg | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcgggtg | ccacggccat | gattccgttc | ctcgagcaacg | 540 |
| acgacgccaa | ccgggctctg | atgggtgcc | acatgcagcg | ccaggcggtt | ccgctgggtgc | 600 |
| gcagcgaggc | gccgctgggtg | ggcacc | | | | 626 |

<210> 110
<211> 705
<212> DNA
<213> Mycobacterium kansasii

<400> 110

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgcgc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcgggcct | caccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | 180 |
| agcgtgccgg | gctggaagt | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | 300 |
| tcaacccgtt | cggtttcatc | gagacgccgt | accgcaaggt | gatcgacggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 111

<211> 705

<212> DNA

<213> Mycobacterium kansasii

<400> 111

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgcgc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcgggcct | caccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | 180 |
| agcgtgccgg | gctggaagt | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | 300 |
| tcaacccgtt | cggtttcatc | gagacgccgt | accgcaaggt | gatcgacggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 112

<211> 705

<212> DNA

<213> Mycobacterium kansasii

<400> 112

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgcgc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcgggcct | caccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | 180 |
| agcgtgccgg | gctggaagt | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgccga | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | 300 |
| tcaacccgtt | cggtttcatc | gagacgccgt | accgcaaggt | gatcgacggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 113

<211> 705

<212> DNA

<213> Mycobacterium kansasii

<400> 113

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccg | gtggtcgcgc | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcgggcct | caccacaag | cgccggcttt | cggcgcccgg | gccgggcggt | ctgtcccggg | 180 |

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| agcgtgccgg | gctggaagtg | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcgggtg | tacgcacggg | 300 |
| tcaacccggtt | cggcttcac | gagacgcgt | accgcaaggt | gatcgacgggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgggt | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 114

<211> 705

<212> DNA

<213> Mycobacterium kansasii

<400> 114

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggagggcgatc | acaccgcaga | cactgatcaa | catccgccccg | gtggtcgccg | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcggggcct | cacccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | 180 |
| agcgtgccgg | gctggaagtg | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcgggtg | tacgcacggg | 300 |
| tcaacccggtt | cggcttcac | gagacgcgt | accgcaaggt | gatcgacgggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgggt | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 115

<211> 705

<212> DNA

<213> Mycobacterium kansasii

<400> 115

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggagggcgatc | acaccgcaga | cactgatcaa | catccgccccg | gtggtcgccg | 60 |
| ccatcaagga | gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | 120 |
| tgtcggggcct | cacccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | 180 |
| agcgtgccgg | gctggaagtg | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | 240 |
| tcgagacccc | ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcgggtg | tacgcacggg | 300 |
| tcaacccggtt | cggcttcac | gagacgcgt | accgcaaggt | gatcgacgggt | ctcgttactg | 360 |
| atgagatcca | ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | 420 |
| cgccgatcga | cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | 480 |
| gcgaggtcga | gtacgtggcc | tcgtcggagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgggt | ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagttg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 116

<211> 687

<212> DNA

<213> Mycobacterium kansasii

<400> 116

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|-----|
| ggagggcgatc | acaccgcaga | cactgatcaa | catccgccccg | gtggtcgccg | ccatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgc | tgtcggggcct | 120 |
| cacccacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | agcgtgccgg | 180 |
| gctggaagtg | cgtgacgtgc | acccgtcgca | ctacggccgc | atgtgcccg | tcgagacccc | 240 |
| ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcgggtg | tacgcacggg | tcaacccggtt | 300 |
| cggcttcac | gagacgcgt | accgcaaggt | gatcgacgggt | ctcgttactg | atgagatcca | 360 |
| ctacttgacg | gccgacgagg | aggaccgcca | cgtcgtggca | caggccaact | cgccgatcga | 420 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | gcgaggtcga | 480 |
| gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 117

<211> 687

<212> DNA

<213> Mycobacterium kansasii

<400> 117

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccc | gtggtcgccg | ccatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | tgctcgggcct | 120 |
| caccacacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | agcgtgccgg | 180 |
| gctggaagtg | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgcccgga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | tcaaccggtt | 300 |
| cggttcatc | gagacgccgt | accgcaaggt | gatcgacggg | ctcgttactg | atgagatcca | 360 |
| ctacttgacg | gccgacgagg | aggaccgcca | cgctcgggca | caggccaact | cgccgatcga | 420 |
| cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | gcgaggtcga | 480 |
| gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 118

<211> 687

<212> DNA

<213> Mycobacterium kansasii

<400> 118

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccc | gtggtcgccg | ccatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | tgctcgggcct | 120 |
| caccacacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | agcgtgccgg | 180 |
| gctggaagtg | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgcccgga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | tcaaccggtt | 300 |
| cggttcatc | gagacgccgt | accgcaaggt | gatcgacggg | ctcgttactg | atgagatcca | 360 |
| ctacttgacg | gccgacgagg | aggaccgcca | cgctcgggca | caggccaact | cgccgatcga | 420 |
| cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | gcgaggtcga | 480 |
| gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 119

<211> 687

<212> DNA

<213> Mycobacterium kansasii

<400> 119

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| ggaggcgatc | acaccgcaga | cactgatcaa | catccgcccc | gtggtcgccg | ccatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | tgctcgggcct | 120 |
| caccacacaag | cgccggcttt | cggcgctggg | gccgggcggt | ctgtcccggg | agcgtgccgg | 180 |
| gctggaagtg | cgtgacgtgc | accgctcgca | ctacggccgc | atgtgcccgga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggcc | tgatcggtc | gctgtcggtg | tacgcacggg | tcaaccggtt | 300 |
| cggttcatc | gagacgccgt | accgcaaggt | gatcgacggg | ctcgttactg | atgagatcca | 360 |
| ctacttgacg | gccgacgagg | aggaccgcca | cgctcgggca | caggccaact | cgccgatcga | 420 |
| cgctgagggc | cggttcgtcg | agccgcgcgt | gctggtgcgc | cgcaaggccg | gcgaggtcga | 480 |
| gtacgtggcc | tcgtcggagg | tggaactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgggctc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |

câtggagttg cgcgcggcga tgcacgc

687

<210> 120
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 120
ggaggcgatc acaccgcaga cgctgatcaa catccggccg gtggtcgccg cgatcaagga 60
gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tgtcggggct 120
gaccacaag cgcgggtgt cggcgtggg cccgggtgt ctgtcgcgtg agcgtgccgg 180
cttgagggtc cgtgacgtgc acccgtcgca ctacggccgg atgtgccga tcgagacccc 240
ggagggtccg aacatcgcc tgatcggttc gctgtcgggtg tacgcgcggg tcaatccgtt 300
cgggttcacg gagacgcctt atcggaaggt tgtggacggt gtcgttactg acgagatcgt 360
ctacctgacc gccgacgagg aggaccgcca cgctcgtggcg caggccaact cgccgaccag 420
accaacgag gccggtgccg aggttttcga agaggggctg gtcctggttc gccgcaaggc 480
gggcgaggtg gactacgtgc ccagctccga ggtggactac atggacgtct cgccgcggca 540
gatggtgtcc gtggccaccg ccatgattcc gttcctcgag cagcagcagc ccaaccgtgc 600
cctgatgggc gccaacatgc agcgcacggc ggttccgctg gtgcgcagcg aggcgcgcgt 660
ggtgggcacc ggcattggagc tgcgcgcggc gatcgacgc 699

<210> 121
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 121
ggaggcgatc acaccgcaga cgctgatcaa catccggccg gtggtcgccg cgatcaagga 60
gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tgtcggggct 120
gaccacaag cgcgggtgt cggcgtggg cccgggtgt ctgtcgcgtg agcgtgccgg 180
cttgagggtc cgtgacgtgc acccgtcgca ctacggccgg atgtgccga tcgagacccc 240
ggagggtccg aacatcgcc tgatcggttc gctgtcgggtg tacgcgcggg tcaatccgtt 300
cgggttcacg gagacgcctt atcggaaggt tgtggacggt gtcgttactg acgagatcgt 360
ctacctgacc gccgacgagg aggaccgcca cgctcgtggcg caggccaact cgccgaccag 420
accaacgag gccggtgccg aggttttcga agaggggctg gtcctggttc gccgcaaggc 480
gggcgaggtg gactacgtgc ccagctccga ggtggactac atggacgtct cgccgcggca 540
gatggtgtcc gtggccaccg ccatgattcc gttcctcgag cagcagcagc ccaaccgtgc 600
cctgatgggc gccaacatgc agcgcacggc ggttccgctg gtgcgcagcg aggcgcgcgt 660
ggtgggcacc ggcattggagc tgcgcgcggc gatcgacgc 699

<210> 122
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 122
ggaggcgatc acaccgcaga cgctgatcaa catccggccg gtggtcgccg cgatcaagga 60
gttcttcggc accagccagc tgtcgcagtt catggaccag aacaaccgc tgtcggggct 120
gaccacaag cgcgggtgt cggcgtggg cccgggtgt ctgtcgcgtg agcgtgccgg 180
cttgagggtc cgtgacgtgc acccgtcgca ctacggccgg atgtgccga tcgagacccc 240
ggagggtccg aacatcgcc tgatcggttc gctgtcgggtg tacgcgcggg tcaatccgtt 300
cgggttcacg gagacgcctt atcggaaggt tgtggacggt gtcgttactg acgagatcgt 360
ctacctgacc gccgacgagg aggaccgcca cgctcgtggcg caggccaact cgccgaccag 420
accaacgag gccggtgccg aggttttcga agaggggctg gtcctggttc gccgcaaggc 480
gggcgaggtg gactacgtgc ccagctccga ggtggactac atggacgtct cgccgcggca 540
gatggtgtcc gtggccaccg ccatgattcc gttcctcgag cagcagcagc ccaaccgtgc 600
cctgatgggc gccaacatgc agcgcacggc ggttccgctg gtgcgcagcg aggcgcgcgt 660
ggtgggcacc ggcattggagc tgcgcgcggc gatcgacgc 699

Q1
Conf.

<210> 123
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 123

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccggccg | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tgtcggggct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcgcgtg | agcgtgcccg | 180 |
| cttgagggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccg | aacatcggcc | tgatcggttc | gctgtcgggtg | tacgcgcggg | tcaatccgtt | 300 |
| cggggttcac | gagacgcctt | atcggaaggt | tgtggacggt | gtcgttactg | acgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgaccag | 420 |
| acccaacgag | gccgggtgcc | aggttttcga | agaggggctg | gtcctggttc | gccgcaaggc | 480 |
| gggcgaggtg | gagtacgtgc | ccagctccga | ggtggactac | atggacgtct | cgccgcggca | 540 |
| gatggtgtcc | gtggccaccg | ccatgattcc | gttcctcgag | cacgacgacg | ccaaccgtgc | 600 |
| cctgatgggc | gccaacatgc | agcgccaggc | ggttccgctg | gtgcgcagcg | aggcgccgct | 660 |
| ggtgggcacc | ggcatggagc | tgcgcgcggc | gatcgacgc | | | 699 |

<210> 124
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 124

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccggccg | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tgtcggggct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcgcgtg | agcgtgcccg | 180 |
| cttgagggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccg | aacatcggcc | tgatcggttc | gctgtcgggtg | tacgcgcggg | tcaatccgtt | 300 |
| cggggttcac | gagacgcctt | atcggaaggt | tgtggacggt | gtcgttactg | acgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgaccag | 420 |
| acccaacgag | gccgggtgcc | aggttttcga | agaggggctg | gtcctggttc | gccgcaaggc | 480 |
| gggcgaggtg | gagtacgtgc | ccagctccga | ggtggactac | atggacgtct | cgccgcggca | 540 |
| gatggtgtcc | gtggccaccg | ccatgattcc | gttcctcgag | cacgacgacg | ccaaccgtgc | 600 |
| cctgatgggc | gccaacatgc | agcgccaggc | ggttccgctg | gtgcgcagcg | aggcgccgct | 660 |
| ggtgggcacc | ggcatggagc | tgcgcgcggc | gatcgacgc | | | 699 |

<210> 125
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 125

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccggccg | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tgtcggggct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcgcgtg | agcgtgcccg | 180 |
| cttgagggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccg | aacatcggcc | tgatcggttc | gctgtcgggtg | tacgcgcggg | tcaatccgtt | 300 |
| cggggttcac | gagacgcctt | atcggaaggt | tgtggacggt | gtcgttactg | acgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgaccag | 420 |
| acccaacgag | gccgggtgcc | aggttttcga | agaggggctg | gtcctggttc | gccgcaaggc | 480 |
| gggcgaggtg | gagtacgtgc | ccagctccga | ggtggactac | atggacgtct | cgccgcggca | 540 |
| gatggtgtcc | gtggccaccg | ccatgattcc | gttcctcgag | cacgacgacg | ccaaccgtgc | 600 |
| cctgatgggc | gccaacatgc | agcgccaggc | ggttccgctg | gtgcgcagcg | aggcgccgct | 660 |
| ggtgggcacc | ggcatggagc | tgcgcgcggc | gatcgacgc | | | 699 |

<210> 126
<211> 699
<212> DNA
<213> Mycobacterium malmoense

<400> 126

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccggccg | gtgggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtegcagtt | catggaccag | aacaaccgcg | tgteggggct | 120 |
| gacccacaag | cgccggctgt | cggegtggg | cccgggtggt | ctgtcgctg | agcgtgccgg | 180 |
| cttgagggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacccc | 240 |
| ggagggtccg | aacatcggtc | tgatcggttc | gctgtcggtg | tacgcgagg | tcaatccgtt | 300 |
| cggggttcac | gagacgcctt | atcggaaggt | tgtggacgg | gtcgttactg | acgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtegtggcg | caggccaact | cgccgaccag | 420 |
| acccaacgag | gccggtgccg | aggttttcga | agagggggcg | gtcctgggtc | gccgcaaggc | 480 |
| gggcgaggtg | gagtacgtgc | ccagctccga | ggtggactac | atggacgtct | cgccgcggca | 540 |
| gatggtgtcc | gtggccaccg | ccatgattcc | gttcctcgag | cacgacgacg | ccaaccgtgc | 600 |
| cctgatgggc | gccaacatgc | agcgccaggc | ggttcgcgtg | gtgcgcagcg | aggcgccgct | 660 |
| ggtgggcacc | ggcatggagc | tgcgcgccgc | gatcgacgc | | | 699 |

<210> 127

<211> 687

<212> DNA

<213> Mycobacterium marinum

<400> 127

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgttgatcaa | catccgtccg | gtcgttgccg | cgatcaagga | 60 |
| gttcttcgga | accagccagc | tgtegcagtt | catggaccag | aacaaccgcg | tctccggctc | 120 |
| cacccacaag | cgccgcctct | cggegtggg | gccgggagg | ctgtcccgtg | agcgcgccgg | 180 |
| tctggaagtt | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacgcc | 240 |
| ggaagggccg | aacatcggtc | tgatcggttc | actgtcggtg | tacggccggg | tcaaccgtt | 300 |
| cggggttcac | gagacgcctt | accgcaaggt | ggtcgacggg | gtcgtttccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtegtggcg | caggccaact | cgccgatcga | 420 |
| cgcgcagggc | cgcttcgtcg | agccgcgcgt | gctggtccgc | cggaaggcgg | gagaggtcga | 480 |
| gtacgtgccc | tcgtcagagg | tggactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgatgacgcc | aaccgcgcc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | tcccgtggt | gcgcagcgag | gcaccgctgg | tcggtaccgg | 660 |
| tatggagttg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 128

<211> 687

<212> DNA

<213> Mycobacterium marinum

<400> 128

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgttgatcaa | catccgtccg | gtcgttgccg | cgatcaagga | 60 |
| gttcttcgga | accagccagc | tgtegcagtt | catggaccag | aacaaccgcg | tctccggctc | 120 |
| cacccacaag | cgccgcctct | cggegtggg | gccgggagg | ctgtcccgtg | agcgcgccgg | 180 |
| tctggaagtt | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacgcc | 240 |
| ggaagggccg | aacatcggtc | tgatcggttc | actgtcggtg | tacggccggg | tcaaccgtt | 300 |
| cggggttcac | gagacgcctt | accgcaaggt | ggtcgacggg | gtcgtttccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtegtggcg | caggccaact | cgccgatcga | 420 |
| cgcgcagggc | cgcttcgtcg | agccgcgcgt | gctggtccgc | cggaaggcgg | gagaggtcga | 480 |
| gtacgtgccc | tcgtcagagg | tggactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgatgacgcc | aaccgcgcc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | tcccgtggt | gcgcagcgag | gcaccgctgg | tcggtaccgg | 660 |
| tatggagttg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 129

<211> 687

<212> DNA

<213> Mycobacterium marinum

<400> 129

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccgtccg | gtcgttgccg | cgatcaagga | 60 |
| gttcttcgga | accagccagc | tgtegcagtt | catggaccag | aacaaccgcg | tctccggctc | 120 |
| cacccacaag | cgccgcctct | cggegtggg | gccgggagg | ctgtcccgtg | agcgcgccgg | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tctggaagtt | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacgcc | 240 |
| ggaagggccg | aacatcggtc | tgatcggttc | actgtcggtg | tacgcccggg | tcaaccggtt | 300 |
| cgggttcac | gagacgccct | accgcaaggt | ggtcgacggg | gtcgtttccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcggtgg | caggccaact | cgccgatcga | 420 |
| cgcgcagggc | cgcttcgtcg | agccgcgcgt | gctggtccgc | cggaaggcgg | gcgaggtcga | 480 |
| gtacgtgccc | tcgtcagagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgatgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | tcccgtggt | gcgcagcgag | gcaccgctgg | tcggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 130

<211> 687

<212> DNA

<213> Mycobacterium marinum

<400> 130

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catccgtccg | gtcgttgccg | cgatcaagga | 60 |
| gttcttcgga | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tctccggtct | 120 |
| caccacaaag | cgccgcctct | cggcgctggg | gccgggcggg | ctgtcccgtg | agcgcgcggg | 180 |
| tctggaagtt | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacgcc | 240 |
| ggaagggccg | aacatcggtc | tgatcggttc | actgtcggtg | tacgcccggg | tcaaccggtt | 300 |
| cgggttcac | gagacgccct | accgcaaggt | ggtcgacggg | gtcgtttccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcggtgg | caggccaact | cgccgatcga | 420 |
| cgcgcagggc | cgcttcgtcg | agccgcgcgt | gctggtccgc | cggaaggcgg | gcgaggtcga | 480 |
| gtacgtgccc | tcgtcagagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgatgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | tcccgtggt | gcgcagcgag | gcaccgctgg | tcggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 131

<211> 687

<212> DNA

<213> Mycobacterium marinum

<400> 131

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | cgctgatcaa | catcsgtccg | gtcgttgccg | cgatcaagga | 60 |
| gttcttcgga | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tctccggtct | 120 |
| caccacaaag | cgccgcctct | cggcgctggg | gccgggcggg | ctgtcccgtg | agcgcgcggg | 180 |
| tctggaagtt | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacgcc | 240 |
| ggaagggccg | aacatcggtc | tgatcggttc | actgtcggtg | tacgcccggg | tcaaccggtt | 300 |
| cgggttcac | gagacgccct | accgcaaggt | ggtcgacggg | gtcgtttccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcggtgg | caggccaact | cgccgatcga | 420 |
| cgcgcagggc | cgcttcgtcg | agccgcgcgt | gctggtccgc | cggaaggcgg | gcgaggtcga | 480 |
| gtacgtgccc | tcgtcagagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgatgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | tcccgtggt | gcgcagcgag | gcaccgctgg | tcggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 132

<211> 626

<212> DNA

<213> Mycobacterium mucogenicum

<400> 132

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggtac | gtcgcagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gtcccgtgag | cgcgcgggcc | tcgaggtccg | cgacgtccac | tcgtcgcact | 180 |
| acggccgcat | gtgcccgatc | gagacccttg | aaggccccgaa | catcggtctg | atcggtcgc | 240 |
| tgctcgggtg | cgcgcgggtg | aaccggttcg | gcttcacatc | gaccccgtag | cgcaaggctg | 300 |
| tcgacggcat | cgtcaccgat | cagatcgact | acctgaccgc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcgca | ggccaactcg | ccgctggacg | cgaacggcca | cttcaccgag | gagaagatcc | 420 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcgtccgtcg | taagggcggc | gaggtcgagt | tcgtctcggc | gaacgacgtc | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgcgat | gatcccgttc | ctggagcacg | 540 |
| acgacgccaa | ccgcgccctc | atgggtgcga | acatgcagcg | tcaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgttggtc | ggtacc | | | | 626 |

<210> 133

<211> 626

<212> DNA

<213> Mycobacterium mucogenicum

<400> 133

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggcac | gtcgcagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gtcccgtgag | cgcgcgggcc | tcgaggtccg | cgacgtccac | tcgtcgcaact | 180 |
| acggccgcat | gtgcccgate | gagaccccgg | aaggcccga | catcggtctg | atcggtctgc | 240 |
| tgctcgtgta | cgcacgggtc | aaccgcgttc | gcttcatcga | gaccccgtag | cgcaagggtc | 300 |
| tcgacggcat | cgtcaccgat | cagatcgact | acctgaccgc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcgca | ggccaactcg | ccgctggacg | cgaacggcca | cttcaccgag | gagaagatcc | 420 |
| tcgtccgtcg | taagggcggc | gaggtcgagt | tcgtctcggc | gaacgacgtc | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgcgat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgcgccctg | atgggtgcga | acatgcagcg | tcaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgttggtc | ggtacc | | | | 626 |

<210> 134

<211> 626

<212> DNA

<213> Mycobacterium mucogenicum

<400> 134

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tccgtcccgt | cgtggcggcg | atcaaggagt | tcttcggcac | gtcgcagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gtcccgtgag | cgcgcgggcc | tcgaggtccg | cgacgtccac | tcgtcgcaact | 180 |
| acggccgcat | gtgcccgate | gagaccccgg | aaggcccga | catcggtctg | atcggtctgc | 240 |
| tgctcgtgta | cgcacgggtc | aaccgcgttc | gcttcatcga | gaccccgtag | cgcaagggtc | 300 |
| tcgacggcat | cgtcaccgat | cagatcgact | acctgaccgc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcgca | ggccaactcg | ccgctggacg | cgaacggcca | cttcaccgag | gagaagatcc | 420 |
| tcgtccgtcg | taagggcggc | gaggtcgagt | tcgtctcggc | gaacgacgtc | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgcgat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgcgccctg | atgggtgcga | acatgcagcg | tcaggcggtt | ccgctggtgc | 600 |
| gcagcgaggc | cccgttggtc | ggtacc | | | | 626 |

<210> 135

<211> 626

<212> DNA

<213> Mycobacterium mucogenicum

<221> modified_base

<222> (8)...(8)

<223> n = g,a,c or t

<400> 135

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tccgtccngt | cgtggcggcg | atcaaggagt | tcttcggcac | gtcgcagctg | tcgcagttca | 60 |
| tggaccagaa | caaccgcgtg | tcgggtctga | cccacaagcg | tcgtctgtcg | gcgctggggc | 120 |
| ccggtggtct | gtcccgtgag | cgcgcgggcc | tcgaggtccg | cgacgtccac | tcgtcgcaact | 180 |
| acggccgcat | gtgcccgate | gagaccccgg | aaggcccga | catcggtctg | atcggtctgc | 240 |
| tgctcgtgta | cgcacgggtc | aaccgcgttc | gcttcatcga | gaccccgtag | cgcaagggtc | 300 |
| tcgacggcat | cgtcaccgat | cagatcgact | acctgaccgc | cgacgaggag | gaccgccacg | 360 |
| tcgtggcgca | ggccaactcg | ccgctggacg | cgaacggcca | cttcaccgag | gagaagatcc | 420 |
| tcgtccgtcg | taagggcggc | gaggtcgagt | tcgtctcggc | gaacgacgtc | gactacatgg | 480 |
| acgtctcgcc | gcgccagatg | gtgtcggtcg | cgaccgcgat | gatcccgttc | ctcgagcacg | 540 |
| acgacgccaa | ccgcgccctg | atgggtgcga | acatgcagcg | tcaggcggtt | ccgctggtgc | 600 |

at
cont.

44
26117

gcagcgaggc cccgctggtc ggtacc

626

<210> 136
<211> 626
<212> DNA
<213> Mycobacterium mucogenicum

<400> 136
tccgtcccggt cgtggcggcg atcaaggagt tcttcggcac gtsgcagctg tgcagttca 60
tggaccagaa caaccgctg tcgggtctga cccacaagcg tcgtctgtcg gcgctgggccc 120
ccggtgggtc gtcccgtgag cgcgcgggccc tcgaggtycg cgacgtccac tcgtcgcaact 180
acggccgcat gtgcccgatc gagaccccgga aaggcccgaa catcggtctg atcggtcerc 240
tgtcggtgta cgcacgggtc aaccggttcg gcttcacgca gaccccgta cgaagggtcg 300
tcgacggcat cgtcaccgat cagatcgact acctgaccgc cgacgaggag gaccgccacg 360
tcgtggcgca ggccaactcg ccgctggacg cgaacggcca cttaccgag gagaagatcc 420
tcgtccgtcg taaggcgggc gaggtcgagt tcgtctcggc gaacgacgtc gactacatgg 480
acgtctcgcc gcgccagatg gtgtcggtcg cgaccgcgat gatcccgctc ctcgagcacg 540
acgacgcaa cgcgcacctg atgggtgcga acatgcagcg tcaggcggtt ccgctgggtgc 600
gcagcgaggc cccgctggtc ggtacc 626

<210> 137
<211> 687
<212> DNA
<213> Mycobacterium nonchromagenicum

<400> 137
ggaggcgatc acaccgcaga cctgatcaa catccgcccg gtggctcgccg cgatcaagga 60
gttcttcggc accagccagc tctcccagtt catggaccag aacaaccggt tgcgggtct 120
gaccacaag cgcgcctgt cggcgctggg accggcggt ctgtcgctg agcgggcccg 180
cctggaagtt cgtgacgtgc acccgctcca ctacggccg atgtgtccga tcgagacccc 240
ggaaggcccg aacatcggtc tgatcgggtc gctgtcggtg tacgcgcggg tcaaccggtt 300
cggtttcacg gagacgccct accgcaaggt cgtggacggg gtgctcaccg acgagatcca 360
ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgcgcgtgga 420
ggaggacggg cacttcaccg aggaccgggt tctggttcgt cgtaagggtg gtgaggtcga 480
gtacgtgtcg tccgccgagg tcgactacat ggacgtctca ccgcgccaga tgggtgtcgg 540
ggccacggcc atgattccgt tctctgagca cgacgacgcc aaccgtgccc tgatggggcg 600
caacatgcag cgcagggcg ttcgctgggt gcgcagttag gcgcgcgtgg tgggtaccgg 660
catggagctg cgcgcggcga tcgacgc 687

<210> 138
<211> 687
<212> DNA
<213> Mycobacterium nonchromagenicum

<400> 138
ggaggcgatc acaccgcaga cctgatcaa catccgcccg gtggctcgccg cgatcaagga 60
gttcttcggc accagccagc tctcccagtt catggaccag aacaaccggt tgcgggtct 120
gaccacaag cgcgcctgt cggcgctggg accggcggt ctgtcgctg agcgggcccg 180
cctggaagtt cgtgacgtgc acccgctcca ctacggccg atgtgtccga tcgagacccc 240
ggaaggcccg aacatcggtc tgatcgggtc gctgtcggtg tacgcgcggg tcaaccggtt 300
cggtttcacg gagacgccct accgcaaggt cgtggacggg gtgctcaccg acgagatcca 360
ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgcgcgtgga 420
ggaggacggc cacttcaccg aggaccgggt tctggttcgc cgtaagggtg gcgaggtcga 480
gtacgtctcg tccgccgagg tcgactacat ggacgtctca ccgcgccaga tgggtgtcgg 540
ggccacggcc atgatccgt tctctgagca cgacgacgcc aaccgtgccc tgatggggcg 600
caacatgcag cgcagggcg ttcgctgggt gcgcagttag gcgcgcgtgg tgggtaccgg 660
catggagctg cgcgcggcga tcgacgc 687

<210> 139
<211> 687
<212> DNA
<213> Mycobacterium nonchromagenicum

<400> 139

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccg | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccctg | tgtcgggtct | 120 |
| gacccacaag | cgccgcctgt | cggcgctggg | accgggcggt | ctgtcgcgtg | agcggggccgg | 180 |
| cctggaagtt | cgtgacgtgc | accggtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggaaggcccc | aacatcggtc | tgatcgggtc | gctgtcgggt | tacgcgcggg | tcaaccctgt | 300 |
| cggtttcatc | gagacgccct | accgcaaggt | cgtggacggg | gtcgtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgttggtggc | caggccaact | cgccgctgga | 420 |
| ggaggacggc | cacttcaccg | aggaccgggt | tctggttcgt | cgtaaggggt | gtgaggtcga | 480 |
| gtacgtctcg | tccgccgagg | tcgactacat | ggacgtctca | ccgcgccaga | tgggtgtcgg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagtgag | gcgccgctgg | tgggtaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 140
<211> 687
<212> DNA
<213> Mycobacterium nonchromagenicum

<400> 140

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccg | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccctg | tgtcgggtct | 120 |
| gacccacaag | cgccgcctgt | cggcgctggg | accgggcggt | ctgtcgcgtg | agcggggccgg | 180 |
| cctggaagtt | cgtgacgtgc | accggtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggaaggcccc | aacatcggtc | tgatcgggtc | gctgtcgggt | tacgcgcggg | tcaaccctgt | 300 |
| cggtttcatc | gagacgccct | accgcaaggt | cgtggacggg | gtcgtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgttggtggc | caggccaact | cgccgctgga | 420 |
| ggaggacggc | cacttcaccg | aggaccgggt | tctggttcgt | cgtaaggggt | gtgaggtcga | 480 |
| gtacgtctcg | tccgccgagg | tcgactacat | ggacgtctca | ccgcgccaga | tgggtgtcgg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagtgag | gcgccgctgg | tgggtactgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 141
<211> 687
<212> DNA
<213> Mycobacterium nonchromagenicum

<400> 141

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgcccc | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccctg | tgtcgggtct | 120 |
| gacccacaag | cgccgcctgt | cggcgctggg | accgggcggt | ctgtcgcgtg | agcggggccgg | 180 |
| cctggaagtt | cgtgacgtgc | accggtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggaaggcccc | aacatcggtc | tgatcgggtc | gctgtcgggt | tacgcgcggg | tcaaccctgt | 300 |
| cggtttcatc | gagacgccct | accgcaaggt | cgtggacggg | gtcgtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgctgga | 420 |
| ggaggacggc | cacttcaccg | aggaccgggt | tctggttcgt | cgtaaggggt | gtgaggtcga | 480 |
| gtacgtgtcg | tccgccgagg | tcgactacat | ggacgtctca | ccgcgccaga | tgggtgtcgg | 540 |
| ggccacggcc | atgattccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagtgag | gcgccgctgg | tgggtaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 142
<211> 687
<212> DNA
<213> Mycobacterium terrae

<400> 142
ggaggcgatc acaccgcaga ccctgatcaa catccgcccg gtggtcgccg cgatcaagga 60
gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg tgtcgggtct 120
gacccacaag cgccgctgtt cggcgctggg gcccggtggt ctgtcccgtg agcgcgccgg 180
cctggaagtt cgtgacgtgc acccgagcca ctacggccgg atgtgtccga tcgagacccc 240
ggaaggcccg aacatcggtc tgatcgggtc gctgtcggtg tacgcgcggg tgaaccggtt 300
cggcttcacg gagacgccct accgcaaggt ggtcgacggt gtcgtcagcg acgagatcca 360
ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact cgccgctgga 420
ggacgacggc cggtttcggc aggaacgagt tctggtgcgc cgcaagggcg gcgaggtcga 480
gtacgtgtcg tcggccgagg ttgactacat ggacgtctcg ccgcgccaga tgggtgtcgg 540
ggccacggcc atgattccgt tctcagaca cgacgacgcc aaccgtgccg tgatgggcgc 600
caacatgcag cgtcaggcgg ttccgctggt gcgcagcgag gcgccgctgg tgggcaccgg 660
catggagctg cgcgcgccga tcgacgc 687

<210> 143
<211> 705
<212> DNA
<213> Mycobacterium scrofulaceum

<400> 143
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtcgtggccg 60
cgatcaagga gttcttcggc accagccagc tctcgcagtt catggaccag aacaaccgcg 120
tgtcgggcct gacccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccgcg 180
agcgggccgg gctggaggtc cgggacgtgc acccgtcgca ctacggccgg atgtgccga 240
tcgagacccc ggagggtccc aacatcggtc tgatcggctc gctgtcggtg tacgcgcggg 300
tcaaccggtt cggcttcacg gagacgccgt accgcaaggt ggtcgacggt gtggtcaccg 360
acgagatcca ctacctgacc gccgacgagg aggaccgtca cgtcgtggcg caggccaact 420
cgccgatcga cgcgagcggc cggtttcgagg agtcgcgcgt cctggtccgc cggaaggcgg 480
gcgaggtcga gtacgtgccg tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
tgggtgtcgg ggccaccgcc atgatcccg tctcagaca cgacgacgcc aaccgtgcc 600
tgatgggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
tgggcaccgg catggagttg cgcgcgccga tcgacgcggc gacgt 705

<210> 144
<211> 705
<212> DNA
<213> Mycobacterium scrofulaceum

<400> 144
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtcgtggccg 60
cgatcaagga gttcttcggc accagccagc tctcgcagtt catggaccag aacaaccgcg 120
tgtcgggcct gacccacaag cgccgcctgt cggcgctggg cccgggtggt ctgtcccgcg 180
agcgggccgg gctggaggtc cgggacgtgc acccgtcgca ctacggccgg atgtgccga 240
tcgagacccc ggagggtccc aacatcggtc tgatcggctc gctgtcggtg tacgcgcggg 300
tcaacacgtt cggcttcacg gagacgccgt accgcaaggt ggtcgacggt gtggtcaccg 360
acgagatcca ctacctgacc gccgacgagg aggaccgtca cgtcgtggcg caggccaact 420
cgccgatcga cgcgagcggc cggtttcgagg agtcgcgcgt cctggtccgc cggaaggcgg 480
gcgaggtcga gtacgtgccg tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga 540
tgggtgtcgg ggccaccgcc atgatcccg tctcagaca cgacgacgcc aaccgtgcc 600
tgatgggcgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcgccgctgg 660
tgggcaccgg catggagttg cgcgcgccga tcgacgcggc gacgt 705

<210> 145
<211> 687
<212> DNA
<213> Mycobacterium scrofulaceum

<400> 145
ggaggcgatc acaccgcaga ccctgatcaa catccggccg gtggtggccg cgatcaagga 60
gttcttcggc accagccagc tctcccagtt catggaccag aacaaccgcg tgtcgggtct 120
gacccacaag cgccgcctgt cggcgctggg cccgggcggt ctgtcccgtg agcgggccgg 180

| | | | | | | |
|--------------|------------|-------------|-------------|------------|------------|-----|
| cctcgagggtg | cgcgacgtgc | acccgctcgca | ctacgggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggcc | tgatcgggtc | gctgtcggtg | tacgcgcggg | tcaacccggt | 300 |
| cgggttcacatc | gagacgccgt | accgcaaggt | cgctcgacgtg | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggcg | caggccaact | cgccgatcga | 420 |
| cgcgagcggc | cggttcgagg | agtcgcgcgt | gctggtccgc | cggaaggccg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcc | atgatcccg | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 146

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 146

| | | | | | | |
|--------------|------------|-------------|-------------|------------|------------|-----|
| ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtggccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgctgggcct | 120 |
| gacccacaag | cgccgcctgt | cggcgctggg | cccgggtggt | ctgtcccgcg | agcgggcccg | 180 |
| gctggaggtc | cgggacgtgc | acccgctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcgggtc | gctgtcggtg | tacgcgcggg | tcaacccggt | 300 |
| cggcttcacatc | gagacgccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgtca | cgctcgtggcg | caggccaact | cgccgatcga | 420 |
| cgcgagcggc | cggttcgagg | agtcgcgcgt | cctggtccgc | cggaaggccg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcc | atgatcccg | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 147

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 147

| | | | | | | |
|--------------|------------|-------------|-------------|------------|------------|-----|
| ggagggcgatc | acaccgcaga | cgctgatcaa | catccggccg | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcccagtt | catggaccag | aacaaccgcg | tgctgggtct | 120 |
| gacgcacaag | cgccgcctgt | cggcgctggg | cccgggcggt | ctgtcccgtg | agcgggcccg | 180 |
| gctggaggtc | cgcgacgtgc | acccgctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggagggggccg | aacatcggtc | tgatcgggtc | gctgtcggtg | tacgcccggg | tcaacccggt | 300 |
| cggcttcacatc | gagaccccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagattca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctggtggcg | caggccaact | cgccgatcga | 420 |
| cgcgaaacggc | cggttcgagg | agtcgcgcgt | cctggtccgc | cggaaggccg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggt | 540 |
| ggccaccgcc | atgatcccg | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgtcaggcgg | ttccgctgg | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 148

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 148

| | | | | | | |
|--------------|------------|-------------|-------------|------------|------------|-----|
| ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccg | gtcgtggccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgctgggcct | 120 |
| gacccacaag | cgccgcctgt | cggcgctggg | cccgggtggt | ctgtcccgcg | agcgggcccg | 180 |
| gctggaggtc | cgggacgtgc | acccgctcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| ggaggggtccc | aacatcggtc | tgatcgggtc | gctgtcggtg | tacgcgcggg | tcaacccggt | 300 |
| cggcttcacatc | gagacgccgt | accgcaaggt | ggtcgacggt | gtggtcaccg | acgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgtca | cgctcgtggcg | caggccaact | cgccgatcga | 420 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cgcgagcggc | cggttcgagg | agtcgcgcgt | cctggtccgc | cggaaggcgg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgcggt | 540 |
| ggccaccgcc | atgatcccg | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcgccgctgg | tgggcaccgg | 660 |
| catggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 149

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 149

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccg | gtcgtggcgg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| gacccacaag | cgccgcctct | cggcgctggg | acccggtggt | ctgtcccgtg | agcgtgcggg | 180 |
| cctcgagggtc | cgtgacgtac | acccgtcgca | ctacggccgg | atgtgtccga | tcgaaacccc | 240 |
| ggagggggccg | aacatcggtc | tgatcgggtc | gctgtcgggt | tacgcccggg | tcaacccggt | 300 |
| cgggttcac | gagacgccgt | accgcaaggt | tgtcgacgg | gtggtcaccg | acgagatcga | 360 |
| gtacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| cgccgacggg | cgttcgaag | agtcgcgcgt | gctggttcgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgcggt | 540 |
| cgccacggcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgcc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | gcgcagcgag | gcaccgctgg | tgggcaccgg | 660 |
| gatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 150

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 150

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccg | gtcgtggcgg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| tacccacaag | cgccgcctgt | cggcgctggg | gccgggcgg | ctgtcccgtg | agcgggcggg | 180 |
| cctcgagggtc | cgcgatgtgc | acccgtcgca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| cgaggggtccg | aacatcggtc | tgatcgggtc | gctatcgggt | tacgcgcggg | tcaacccggt | 300 |
| cgggttcac | gagacgccgt | accgcaaggt | tgtcgacgg | gtggtcaccg | acgagatcga | 360 |
| gtacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| ccccgacggc | cgttcgaag | agtcgcgcgt | gctggttcgc | cgtaaggcgg | gcgaggtcga | 480 |
| atacgtgccg | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgcggt | 540 |
| ggcgaccgcg | atgatcccg | tcctcgaaca | cgacgacgcc | aaccgtgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | acgcagcgag | gccccgctgg | tcggcaccgg | 660 |
| gatggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 151

<211> 687

<212> DNA

<213> Mycobacterium scrofulaceum

<400> 151

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccg | gtcgtggcgg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| tacccacaag | cgccgcctgt | cggcgctggg | gccgggcgg | ctgtcccgtg | agcgggcggg | 180 |
| cctcgagggtc | cgcgatgtgc | acccgtcgca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| cgaggggtccg | aacatcggtc | tgatcgggtc | gctatcgggt | tacgcgcggg | tcaacccggt | 300 |
| cgggttcac | gagacgccgt | accgcaaggt | tgtcgacgg | gtggtcaccg | acgagatcga | 360 |
| gtacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| ccccgacggc | cgttcgaag | agtcgcgcgt | gctggttcgc | cgtaaggcgg | gcgaggtcga | 480 |
| atacgtgccg | tcgtccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgcggt | 540 |
| ggcgaccgcg | atgatcccg | tcctcgaaca | cgacgacgcc | aaccgtgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctgg | acgcagcgag | gccccgctgg | tcggcaccgg | 660 |

48
122

gatggagctg cgcgcggcga tcgacgc

687

<210> 152
<211> 687
<212> DNA
<213> Mycobacterium scrofulaceum

<400> 152
ggaggcgatc acaccgcaga ccctgatcaa catccgtccg gtcgtggcgg cgatcaagga 60
gttcttcggc accagccagc tctcgagtt catggaccag aacaaccgc tgcgggtct 120
caccacaag cgcgcctgt cggcgtggg gccgggcgg ctgtcccgtg agcgggcgg 180
cctcgaggtc cgagacgtgc acccgtcgca ctacggccgg atgtgtccga tcgagacccc 240
cgagggtccg aacatcggtc tgatcggttc gctgtcggtg tacgcgcggg tcaaccggtt 300
cgggttcacg gagacgccgt accgcaaggt tgcgcacggt gtggttaccg acgagatcga 360
gtacctgacc gccgacgagg aggaccgcca cgtggtggcg caggccaact cgccgatcga 420
cgccgacggc cgcttcgaag agtcgcgcgt actggttcgc cgtaaggcgg gcgaggtcga 480
gtacgtgccg tcgtccgagg tggactacat ggacgtgtcg ccgcgccaga tgggtgtcgg 540
ggcgaccgcg atgatcccgt tcctcgagca cgacgacgcc aaccgtgcc tgatgggtgc 600
caacatgcag cgccaggcgg ttccgctggt acgcagcgag gcccgcgtgg tcggcaccgg 660
gatggagctg cgcgcggcga tcgacgc 687

<210> 153
<211> 705
<212> DNA
<213> Mycobacterium smegmatis

<400> 153
cccaggacgt ggaggcgatc acaccgcaga ccctgatcaa catccgtccc gtcgtggcgg 60
cgatcaagga gttcttcggc accagccagc tgcgcagtt catggaccag aacaaccgc 120
tgtcgggtct gaccacaag cgtcgtcttt cggcgtggg ccccggcgg ctgtcccgtg 180
agcgcgtgg cctcgaggtc cgcgacgtgc accccagcca ctacggccgc atgtgccga 240
tcgagacccc tgagggtccc aacatcggtc tgatcggttc gctgtcggtg tacgcccgcg 300
tgaaccggtt cggttcacg gagacgccgt accgcaaggt cgagaacggt gtggtcacccg 360
accagatcga ctacctgacc gccgacgagg aggaccgcca cgtcgtggcg caggccaact 420
cgccgaccga cgagaacggc cgcttcaccg aggaccgct catggtccgc aagaaggcgg 480
gcgaggtcga gtctgtctcc gccgaccagg tggactacat ggacgtctcg ccgcgccaga 540
tgggtgtcgg cgctacggcc atgatcccgt tcctcgagca cgacgacgcc aaccgcgcc 600
tgatgggtgc caacatgcag cgccaggcgg ttccgctggt gcgcagcgag gcaccgctgg 660
tgggtaccgg tatggaactg cgcgcggcga tcgacgcggc gacgt 705

<210> 154
<211> 626
<212> DNA
<213> Mycobacterium smegmatis

<221> modified_base
<222> (9)...(9)
<223> n = g,a,c or t

<400> 154
tccgtccgnt cgtggcggcg atcaaggagt tcttcggaac gtcgcagctg tcgcagttca 60
tgaccagaa caaccgctg tccggtctga cccacaagcg ccgcctgtcg gcgctgggcc 120
cgggtggtct gtcccgtgag cgcgcggcc tggaggtccg cgacgtgcac tccagccact 180
acggccgat gtgcccgat gagaccccgg aaggcccga catcggcctg atcggttcgc 240
tgtcgggtga cgcgcgggtc aaccggttcg ggttcacgca gaccccgta cgcaaggtga 300
tcgacggcca ggtcagcgat cagatcgact acctaccgc cgacgaggag gaccgccaca 360
tcgtggcgca ggccaactcg ccgctcgacg acgagggccg gttcaccgag gacaagatcc 420
tcgtccgccg taaggggcgg gaggtcgagt tcgtcgcggc caccgaggtg gactacatgg 480
acgtctcgcc gcgcagatg gtgtcggtcg cgacggcgat gatcccgttc ctcgagcacg 540
acgacgcaaa ccgtgccctg atgggtgcc aatgcagcg ccaggcgggt ccgctgggtcc 600
gcagcgaggc cccgctgggtc ggcacc 626

50° 123

AM
Cont

<210> 155
<211> 705
<212> DNA
<213> Mycobacterium smegmatis

<400> 155

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| cccaggacgt | ggagggcgatc | acaccgcaga | ccctgatcaa | catccgcccc | gtcgtggcg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgctgcagtt | catggaccag | aacaaccgc | 120 |
| tgctcgggtct | gacccacaag | cgctgtctgt | cggcgctggg | cccgggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctggaggtc | cgcgacgtgc | actccagcca | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggaaggcccc | aacatcggcc | tgatcggttc | gctgtcgggtg | tacgcgcggg | 300 |
| tgaaccctgt | cggtttcatc | gagaccccgt | accgcaaggt | cgctgcaggt | gtcatcaccg | 360 |
| accagatcga | ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgccgatcga | cgacaacggc | cggttcaccg | aggaccgcgt | gctggtgcgc | cgcaagggtg | 480 |
| gcgaggtcga | gttcgtctcc | gccaccgagg | tggtactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | cgcgacggcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgtgcct | 600 |
| tgatgggtgc | caacatgcag | cgccaggccg | ttccgctggg | gcgcagcgag | gccccgctgg | 660 |
| tcggcaccgg | tatggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 156
<211> 705
<212> DNA
<213> Mycobacterium smegmatis

<400> 156

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| cccaggacgt | ggagggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgctgcagtt | catggaccag | aacaaccgc | 120 |
| tgctcgggtct | gacccacaag | cgctgtcttt | cggcgctggg | cccgggcggt | ctgtcccgtg | 180 |
| agcgcgccgg | cctcgaggtc | cgcgacgtgc | accccagcca | ctacggccgc | atgtgcccga | 240 |
| tcgagacccc | tgagggtccc | aacatcggtc | tgatcggttc | gctgtcgggtg | tacgcccgcg | 300 |
| tgaaccctgt | cggtttcatc | gagacgcctt | accgcaaggt | cgagaacggt | gtggtcacccg | 360 |
| accagatcga | ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | 420 |
| cgccgaccga | cgagaacggc | cgcttcaccg | aggaccgcgt | catggtccgc | aagaaggcg | 480 |
| gcgaggtcga | gttcgtctcc | gccgaccagg | tggtactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | cgctacggcc | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcc | 600 |
| tgatgggtgc | caacatgcag | cgccaggccg | ttccgctggg | gcgcagcgag | gcaccgctgg | 660 |
| tgggtaccgg | tatggaactg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 157
<211> 705
<212> DNA
<213> Mycobacterium gordonae

<221> modified_base
<222> (688)...(688)
<223> n = g,a,c or t

<221> modified_base
<222> (700)...(701)
<223> n = g,a,c or t

<221> modified_base
<222> (704)...(705)
<223> n = g,a,c or t

<400> 157

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggagggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tcctgcagtt | catggaccag | aacaaccgc | 120 |
| tctccgggtct | gactgcacaag | cggcgtctgt | tcgctttggg | gccgggcggt | ctgtcccgtg | 180 |
| agcgggcggg | cgtggaggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgcccga | 240 |
| tcgagacccc | ggaggggtccg | aatatcggtc | tgatcgggtc | gctgtcgggtg | tacgcacggg | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcaaccggtt | cggttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttgtcacgg | 360 |
| atgagatcca | ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | 420 |
| cgccgatcga | cgccgacgga | cggttcgtcg | agggacgcgt | cctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | 600 |
| tgatgggtgc | caacatgcag | cgccaggcgg | ttccgctggg | gcgcagcgag | gcaccgctgg | 660 |
| tgggtaccgg | tatggagttg | cgcgcgngga | tcgacgcggn | nacnn | | 705 |

<210> 158

<211> 687

<212> DNA

<213> Mycobacterium smegmatis

<400> 158

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggcgg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| gacccacaag | cgtcgtcttt | cggcgctggg | ccccggcggt | ctgtcccgtg | agcgcgccgg | 180 |
| cctcgaggtc | cgcgacgtgc | acccagcca | ctacggccgc | atgtgcccg | tcgagacccc | 240 |
| tgagggtccc | aacatcggtc | tgatcggttc | gctgtcggtg | tacgcccgcg | tgaaccggtt | 300 |
| cggttcatc | gagacgccgt | accgcaaggt | cgagaacggt | gtggtcaccg | accagatcga | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgaccga | 420 |
| cgagaacggc | cgcttcaccg | aggaccgcgt | catggtccgc | aagaaggggc | gcgaggtcga | 480 |
| gttcgtctcc | gccgaccagg | tggactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| cgccacggcc | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggg | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggaactg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 159

<211> 687

<212> DNA

<213> Mycobacterium szulgai

<400> 159

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tctccggtct | 120 |
| gacgcacaag | cggtcgtctgt | ccgctttggg | gccggggcgt | ctgtcccgtg | agcgggccgg | 180 |
| gctggaggtc | cgtagcgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacccc | 240 |
| ggagggtccg | aatatcggtc | tgatcggttc | gctgtcggtg | tacgcacggg | tcaaccggtt | 300 |
| cggttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttgtcacgg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgatcga | 420 |
| cgccgacgga | cggttcgtcg | aggacgtgt | cctggtccgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgccc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggg | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggagttg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 160

<211> 687

<212> DNA

<213> Mycobacterium szulgai

<400> 160

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tctccggtct | 120 |
| gacgcacaag | cggtcgtctgt | ccgctttggg | gccggggcgt | ctgtcccgtg | agcgggccgg | 180 |
| gctggaggtc | cgtagcgtgc | acccgtcgca | ctacggccgg | atgtgcccg | tcgagacccc | 240 |
| ggagggtccg | aatattgggtc | tgatcggttc | gctgtcggtg | tacgcacggg | tcaaccggtt | 300 |
| cggttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttgtcacgg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgatcga | 420 |
| cgccgacgga | cggttcgtcg | aggacgtgt | cctggtccgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgccc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tggtgtcggg | 540 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 161
 <211> 687
 <212> DNA
 <213> Mycobacterium szulgai

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 161 | | | | | | |
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgc | tctccggtct | 120 |
| gacgcacaag | cggcgtctgt | ccgctctggg | gccgggcggg | ctgtcccgtg | agcggggcgg | 180 |
| gctggaggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgccga | tcgagacccc | 240 |
| ggagggtccg | aatatcggtc | tgatcgggtc | gctgtcgggt | tacgcacggg | tcaaccggtt | 300 |
| cggtttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttggtcacg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| cgccgacgga | cggttcgtcg | agggacgcgt | cctggtccgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgcc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 162
 <211> 687
 <212> DNA
 <213> Mycobacterium szulgai

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 162 | | | | | | |
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgc | tctccggtct | 120 |
| gacgcacaag | cggcgtctgt | ccgctctggg | gccgggcggg | ctgtcccgtg | agcggggcgg | 180 |
| gctggaggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgccga | tcgagacccc | 240 |
| ggagggtccg | aatatcggtc | tgatcgggtc | gctgtcgggt | tacgcacggg | tcaaccggtt | 300 |
| cggtttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttggtcacg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| cgccgacgga | cggttcgtcg | agggacgcgt | cctggtccgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgcc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 163
 <211> 687
 <212> DNA
 <213> Mycobacterium szulgai

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 163 | | | | | | |
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccggccc | gtcgtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgagtt | catggaccag | aacaaccgc | tctccggtct | 120 |
| gacgcacaag | cggcgtctgt | ccgctttggg | gccgggcggg | ctgtcccgtg | agcggggcgg | 180 |
| gctggaggtc | cgtgacgtgc | acccgtcgca | ctacggccgg | atgtgccga | tcgagacccc | 240 |
| ggagggtccg | aatatcggtc | tgatcgggtc | gctgtcgggt | tacgcacggg | tcaaccggtt | 300 |
| cggtttcatc | gagacgccgt | atagacgcgt | cgtcagcgga | gttggtcacg | atgagatcca | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgatcga | 420 |
| cgccgacgga | cggttcgtcg | agggacgtgt | cctggtccgc | cgcaaggcgg | gcgaggtcga | 480 |
| gtacgtgcc | tcctccgagg | tggactacat | ggacgtgtcg | ccgcgccaga | tgggtgtcgg | 540 |
| ggccaccgcg | atgattccgt | tcctcgagca | cgacgacgcc | aaccgcgccc | tgatgggtgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcaccgctgg | tgggtaccgg | 660 |
| tatggagttg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 164
 <211> 687
 <212> DNA
 <213> Mycobacterium terrae

<400> 164

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgcccc | gtggtcgccg | cgattaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcccgtg | aacggggccg | 180 |
| gcttgaggtc | cgtgacgtgc | acccgtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggagggtccg | aacatcggtc | tgatcggctc | gctggcgact | tacgcgcggg | tcaaccggtt | 300 |
| cggtttcatc | gaaaccccgt | accgcaaggt | caacgacggt | gtggtcagcg | atgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgctgga | 420 |
| ggacgacaat | cgcttcaccg | aggaccgggt | tctggtgcgc | cgcaagggcg | gcgaggtcga | 480 |
| gtacgtgtcg | tcggccgagg | tcgactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgatcccg | tcctggagca | cgacgacgcc | aaccggggcc | tgatgggtgc | 600 |
| caacatgcag | cgtcaggcgg | ttcccctggt | gcgcagcgag | gcgcgcgtgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 165
 <211> 687
 <212> DNA
 <213> Mycobacterium terrae

<400> 165

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcccgtg | agcggggccg | 180 |
| gcttgaggtc | cgtgacgtgc | acccgtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggagggtccg | aacatcggtc | tgatcggctc | gctggcgact | tacgcgcggg | tcaaccggtt | 300 |
| cggtttcatc | gaaaccccgt | accgcaaggt | caacgacggt | gtggtcagcg | atgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgctgga | 420 |
| ggacgacaat | cgcttcaccg | aggaccgggt | tctggtgcgc | cgcaagggcg | gcgaggtcga | 480 |
| gtacgtgtcg | tcggccgagg | tcgactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgatcccg | tcctggagca | cgacgacgcc | aaccggggcc | tgatgggtgc | 600 |
| caacatgcag | cgtcaggcgg | ttcccctggt | gcgcagcgag | gcgcgcgtgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 166
 <211> 687
 <212> DNA
 <213> Mycobacterium terrae

<400> 166

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgcccc | gtggtcgccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tctcgcagtt | catggaccag | aacaaccgcg | tgtcgggtct | 120 |
| gacccacaag | cgccggctgt | cggcgctggg | cccgggtggt | ctgtcccgtg | agcggggccg | 180 |
| gcttgaggtc | cgtgacgtgc | acccgtccca | ctacggccgg | atgtgtccga | tcgagacccc | 240 |
| ggagggtccg | aacatcggtc | tgatcggctc | gctggcgacc | tacgcgcggg | tcaaccggtt | 300 |
| cggtttcatc | gaaaccccgt | accgcaaggt | caacgacggt | gtggtcagcg | atgagatcgt | 360 |
| ctacctgacc | gccgacgagg | aggaccgcca | cgctcgtggc | caggccaact | cgccgctgga | 420 |
| ggacgacagt | cgcttcgccg | aggaccgagt | tctggtgcgc | cgcaagggcg | gtgaggtcga | 480 |
| gtacgtgtcg | tcggccgagg | tcgactacat | ggacgtctcg | ccgcgccaga | tggtgtcggg | 540 |
| ggccacggcc | atgatcccg | tcctggagca | cgacgacgcc | aaccgtgcc | tgatgggcgc | 600 |
| caacatgcag | cgtcaggcgg | ttcccctggt | gcgcagcgag | gcgcgcgtgg | tgggcaccgg | 660 |
| catggagctg | cgcgcggcga | tcgacgc | | | | 687 |

<210> 167
 <211> 687
 <212> DNA
 <213> Mycobacterium triplex

<221> modified_base
 <222> (139)...(139)
 <223> n = g,a,c or t

<400> 167

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ggaggcgatc | acaccgcaga | ccctgatcaa | catccgtccc | gtcgtggccg | cgatcaagga | 60 |
| gttcttcggc | accagccagc | tgtcccagtt | catggaccag | aacaaccgcg | tgtccgggct | 120 |
| caccacacaag | cgccgcctnt | cggcgctggg | gccgggcggt | ctgtcgcgtg | agcgcgcggg | 180 |
| cctcgagggtt | cgtgacgtgc | accggtcgca | ctacggccgg | atgtgcccga | tcgagacccc | 240 |
| cgagggtccg | aacatcggtc | tgatcggttc | gctgtcgggtg | tacgcgcggg | tcaaccggtt | 300 |
| cgggttcatt | gagacgcctt | accgcaaggt | ggtcgacggt | gtggtcaccg | amcaratcga | 360 |
| ctascctgrcc | gccgacgagg | aggaccgcca | cgtcgtggcg | caggccaact | cgccgatcga | 420 |
| cgccgacggc | cggttcgagg | agtcgcgtgt | cctggtccgc | cggaaggcgg | gcgaggtcga | 480 |
| gtacgtgccg | tcgtccgagg | tcgactacat | ggacgtgtcg | ccgcgccaga | tgggtgcggt | 540 |
| ggccacggcc | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | tgatgggcgc | 600 |
| caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgcgcgtgg | tcggtaccgg | 660 |
| tatggagctg | cgcgcgccga | tcgacgc | | | | 687 |

<210> 168

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 168

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggcccg | gctggagggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccga | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggttc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaaccgcga | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgtttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggagggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgcggt | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcgccga | tcgacgcggc | gacgt | | 705 |

<210> 169

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 169

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggcccg | gctggagggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccga | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggttc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaaccgcga | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgtttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggagggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgcggt | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcgccga | tcgacgcggc | gacgt | | 705 |

<210> 170

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 170

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggagcgcatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggt | caccacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccga | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tcaaccgcgt | cggttccatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcg | gaacatgcag | cgccaggccg | ttccgttggt | gcgtakcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 171

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 171

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggagcgcatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggt | caccacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccga | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tcaaccgcgt | cggttccatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcg | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 172

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 172

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggagcgcatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggt | caccacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccga | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggtc | gctgtcggtg | tacgcgcggg | 300 |
| tcaaccgcgt | cggttccatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggt | ggccaccgcg | atgatcccg | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcg | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 173

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 173

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccaggacgt | ggagcgcatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggt | caccacaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| agcgggcccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccgg | atgtgcccga | 240 |
| tcgaaacccc | ggagggcccg | aacatcggtt | tgatcggctc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggccc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 174

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 174

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacacaag | cggcggtctc | cggcgcttgg | tccgggcggg | ctgtcgcgcg | 180 |
| agcgggcccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccgg | atgtgcccga | 240 |
| tcgaaacccc | ggagggcccg | aacatcggtt | tgatcggctc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggccc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 175

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 175

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacacaag | cggcggtctc | cggcgcttgg | tccgggcggg | ctgtcgcgcg | 180 |
| agcgggcccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccgg | atgtgcccga | 240 |
| tcgaaacccc | ggagggcccg | aacatcggtt | tgatcggctc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggccc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 176

<211> 705

<212> DNA

<213> Mycobacterium xenopi

<400> 176

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacacaag | cggcggtctc | cggcgcttgg | tccgggcggg | ctgtcgcgcg | 180 |
| agcgggcccgg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccgg | atgtgcccga | 240 |
| tcgaaacccc | ggagggcccg | aacatcggtt | tgatcggctc | gctgtcgggtg | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |

717130

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagc | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 177
 <211> 705
 <212> DNA
 <213> Mycobacterium xenopi

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 177 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggct | caccacaaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggcccg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccg | atgtgcccg | 240 |
| tcgaaaacccc | ggaggggccc | aacatcggtt | tgatcggctc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 178
 <211> 705
 <212> DNA
 <213> Mycobacterium xenopi

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 178 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggct | caccacaaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggcccg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccg | atgtgcccg | 240 |
| tcgaaaacccc | ggaggggccc | aacatcggtt | tgatcggctc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 179
 <211> 705
 <212> DNA
 <213> Mycobacterium xenopi

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 179 | | | | | | |
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggccg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgctcggggct | caccacaaag | cggcggctct | cggcgcttgg | tccgggcggt | ctgtcgcgcg | 180 |
| agcgggcccg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggcccg | atgtgcccg | 240 |
| tcgaaaacccc | ggaggggccc | aacatcggtt | tgatcggctc | gctgtcgggt | tacgcgcggg | 300 |
| tcaacccgta | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaaggggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggactacat | ggacgtctcg | ccgcgccaga | 540 |
| tgggtgtcgg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatggggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |

tgggcaccgg gatggaattg cgcgcggcga tcgacgcggc gacgt

705

<210> 180
 <211> 705
 <212> DNA
 <213> Mycobacterium xenopi

<400> 180

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | ccttgatcaa | catccgcccc | gtggtggcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tctcgcagtt | catggatcag | aacaaccgcg | 120 |
| tgtcggggct | caccacaag | cggcggctct | cggcgcttgg | tccgggcggg | ctgtcgcgcg | 180 |
| agcgggcccg | gctggaggtc | cgtgacgtgc | actcgagcca | ctacggccgg | atgtgcccg | 240 |
| tcgaaacccc | ggaggggccc | aacatcggtt | tgatcggtct | gctgtcgggt | tacgcgcggg | 300 |
| tcaaccgcgt | cgggttcatt | gagacgcctt | accgcaaggt | ggtcaacggc | gtggtcaccg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | tgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgaggatggc | cgcttcaccg | agccgcgggt | gctggtgcgc | cgcaagggtg | 480 |
| gggaggtcga | gtacgtgtcc | tcctccgagg | tggaactacat | ggacgtctcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccgcg | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgcgcgt | 600 |
| tgatgggcgc | gaacatgcag | cgccaggccg | ttccgttggt | gcgtagcgag | gcaccgctgg | 660 |
| tgggcaccgg | gatggaattg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |

<210> 181
 <211> 705
 <212> DNA
 <213> Mycobacterium sp. unique MAC#4

<400> 181

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cccaggacgt | ggaggcgatc | acaccgcaga | cgctgatcaa | catccgtccg | gtcgtcgcgg | 60 |
| cgatcaagga | gttcttcggc | accagccagc | tgctgcagtt | catggaccag | aacaaccgcg | 120 |
| tgtcggggct | gaccacaag | cgccgcctgt | cgccgctggg | cccgggcggg | ctgtcccgtg | 180 |
| agcgcgcccg | cctcgaggtc | cgcgacgtgc | accgctcgca | ctacggccgc | atgtgcccg | 240 |
| tcgagacccc | ggagggtccg | aacatcggtc | tgatcggtct | gctgtcgggt | tacgcgaggg | 300 |
| tcaaccgcgt | cgggttcatt | gagacgcctt | accgcaaggt | ggtcgacggg | gtggtcagcg | 360 |
| acgagatcgt | gtacctgacc | gccgacgagg | aggaccgcca | cgtggtggcg | caggccaact | 420 |
| cgccgatcga | cgccgacggc | cggttcgtcg | aggcccgctg | cctggtccgc | cgcaaggcgg | 480 |
| gcgaggtcga | gtacgtgccc | tcgtccgagg | tggaactacat | ggacgtgtcg | ccgcgccaga | 540 |
| tggtgtcggg | ggccaccggc | atgatcccgt | tcctcgagca | cgacgacgcc | aaccgtgccc | 600 |
| tgatgggcgc | caacatgcag | cgccaggcgg | ttccgctggt | gcgcagcgag | gcgccgctgg | 660 |
| tgggcaccgg | catggagctg | cgcgcggcga | tcgacgcggc | gacgt | | 705 |